

FERODO AMERICA, INC.
(NUTURN CORP.)

Liza Antic Tina ROSEN
- *Natura*
(317) 521-3883
Worldbeats

1112 South 25th Street
New Castle, IN 47362



FEDERAL-MOGUL
Friction Products
1 Grizzly Lane
Smithville, TN 37166-2810
USA

Facsimile transmission

H891401.doc

For the attention of
Gil Laycock

Title/Department

Company

Friction Materials Standards Institute (FMSI)

Facsimile number

203-452-7954

From

Steven Wyss

Title/Department

Test Services Dept.

Direct Phone:

615 597 3815

Date

August 4, 1999

Facsimile No:

615 597 6059

Number of pages (including this sheet)

one

Message

Copy

Gil,

I have discovered an error in the 1997 Brake Block Identification Catalog (catalog 972).

The first line on page 7 is incorrect. The following table lists the current data, and also the correct data for this application.

	CURRENT DATA	CORRECT DATA
Width	5	5
Thickness	3/4	3/4
Long Arc	8 21/32	6 5/8
L	7 29/32	5 13/16
D. D.	12 1/4	12 1/4
FMSI Number	4345	4545
Bolt -B	3/8B	3/8B
X	1 5/8	3 1/2
A	4 27/32	3 15/16
CTB Angle	82 °	82 °

I base my conclusions on the following facts:

1. FMSI 1010 is correctly listed on page 6 of the catalog. The data on page 7 does not match the 4345 application.
2. The 4345 application is 3" x 17 1/4" x 5" block, with four bolt holes. FMSI 4345 does not appear on either page 6 or 7.
3. FMSI 4345 and FMSI 4545 are easily confused.

Regards,
Steve Wyss

CC: Dennis Griffin

3" x 17 1/4" 5" x 12 1/2"
DATA FOR 4345 WAS PUT IN FOR 4345 3" AND
4345 5" (WHICH SHOULD HAVE BEEN 4545)
5"

STEVE
IT WAS WRONG IN
THE 1983 BBID BOOK
THAT WE ENTERED INTO
EXCEL FILES FOR THE
1997 BOOK
WE WILL CORRECT OUR
FILES
THANK YOU
GIL LAYCOCK



1 Grizzly Lane
Smithville, TN 37166-2810
USA

Telephone: 615-597-6700
Facsimile: 615-597-6059

Federal Mogul
Friction Products Group

Facsimile transmission

DS-XXX

For the attention of
Lori Dinihanian

Title/Department

Company

Friction Materials Standards Institute

Facsimile number

203-452-7951

From

Steve Turner

Title/Department

Applications Eng.

Ext. / Phone:

615 597 6700

Date

3/18/99

Facsimile No:

615 597 6059

Number of pages (including this sheet)

1

Message

Copy

RE: FMSI Updates

Lori,

Since Federal-Mogul Marketing is no longer managed from this facility here in Smithville, it will not be necessary for us to receive 270 copies. I only need enough for the needs of this facility. Therefore, I will request that a total of 10 copies be sent to Federal-Mogul Friction Products here in Smithville. This will be sufficient for our Quality and our Engineering groups.

Sincerely,

Steve Turner
Aftermarket App. Eng.

Steve



Facsimile Transmission

or The Attention Of

Title / Department

GILL LAYCOCK

Company

FMSI

Facsimile Number

203-452-7951
~~203-452-7951~~

From

Title / Department

RODNEY SILVEY

TOOLING ENGINEER

Telephone Extension / Direct Line

Date

615-597-3656

Facsimile Number

Number of Pages (including this sheet)

(615) 597-7083

Message

GILL,

TO CONFIRM OUR PHONE CONVERSATION THIS MORNING.

MERRI JOHNSON NO LONGER WORKS FOR FEDERAL MOGUL.

PLEASE HAVE ALL DRAWINGS SENT TO THE

ATTENTION OF STEVE TURNER.

UPDATE BULLETINS TO STEVE TURNER & RODNEY SILVEY

THANKS

RODNEY

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE

MONROE, CT 06468

September 21, 1998

Ms. Merri Johnson
Ferodo America Inc.
1 Grizzly Lane
Smithville, TN 37166

Dear Ms. Johnson:

Enclosed is a copy of invoice number 8440. Please note that this invoice is four months old. Perhaps it has been overlooked.

Your attention to this invoice is appreciated. Thank you for your assistance.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosure

FMSI 14017



**The
Triangle
Group**

*FEATURING: Triangle Leaf Springs
Triangle Air Springs • Flagg Suspension Parts
Leland Brake & Wheel Parts • TMR Spring Brakes
McRobert Leaf Springs • Inter-City Suspension Parts*

Maloney Road • P.O. Box 425 • DuBois, Pennsylvania 15801 • Telephone 814/375-7211 • Fax 814/371-4495

December 8, 1997

Dear Valued Ferodo Supplier:

Please be advised that effective December 8, 1997, Ferodo America has sold its Leland® Parts and TMR® Spring Brake businesses to Triangle Auto Spring Co., of DuBois, Pennsylvania, a wholly-owned subsidiary of the Marmon Group. The purchase of these product lines is a natural extension of Triangle's current product offering of air and leaf springs and suspension parts marketed under the Flagg and Triangle brand names.

The newly formed company, Leland Parts, Inc., will handle the sales and distribution of the Leland and TMR products and continue operations in the LaVergne, Tennessee facility. Further, most of the Leland/TMR management staff as well as operations personnel have joined the new company thereby assuring Leland/TMR customers excellent continuity in quality, service and support.

As a supplier to Ferodo for Leland/TMR parts, you have been instrumental in the past success of these products. It is our hope that you will continue to be a supplier to Leland Parts, Inc. as we enter this exciting time of expanded opportunities.

Further, this change requires that all billing and shipping documents should immediately be addressed to reflect the new ownership and name. Please change your records accordingly for any future invoices or shipping documents. Should you have any questions or require new credit information, please contact Greg Polman at 615-793-5177 for assistance.

Sincerely,

Dennis Long
Vice-President and General Manager
Leland Parts, Inc.

Product Solutions For The Transportation Industry



A member of The Marmon Group of companies

FMSI 14018

Making a list,
Checking it twice. . .

MR. RALPH STOVER

F C I

~~18~~ 18872 Highway 169

St Joseph MD

64505

Active
member

684
709

43 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

AMERICAN SPEEDY PRINTING

First Shelton Place
1000 Bridgeport Avenue
Shelton, CT 06484

(203) 926-9599 FAX 926-9431



Delete:

Tilton - Ferado

6/9/97

DG/5
6/16



FERODO AMERICA INC
1375 Heil Quake Blvd
La Vergne, Tennessee
37086 USA

Telephone
615/793-5177

Facsimile transmission

Part of the T&N
Friction Group

For the attention of	Title/Department
GILL HAYCOCK	
Company	
FMSI	
Facsimile number	
203-452-7951	
From	Title/Department
GEORGE BRETZ	PROJECT SERVICES
Telephone extension/direct line	Date
800 251 3390 X303	10-28-96
Facsimile number	Number of pages (including this sheet)
615-793-5141	1
Message	

DEAR GILL,

WE WOULD LIKE TO OBTAIN PRINT COPIES FOR
THE FOLLOWING PARTS. PLEASE MAIL THESE AT
YOUR EARLIEST CONVENIENCE.

FMSI 4552B FMSI 4727
" 4720
" 4721
" 4722
" 4723
" 4724
" 4725
" 4726

THANKS,

George

mailed
10/28/96

FERODO[®]

AMERICA

Ferodo America, Inc.
1 Grizzly Lane
Smithville, TN 37166
U.S.A.
Telephone: (615)597-6700
Fax: (615)597-5243

T&N
Friction Products Group

Facsimile Transmission

Gil Laycock
For the attention of FMSI Title/department

Company 203-452-7951

Facsimile Number MERRI JOHNSON

From 615-597-6700 Title/department X-314 Date 10/11/94

Telephone extension/direct line 615-597-5243 Data

Facsimile Number _____ Number of pages(including this sheet) _____

Message

MR. LAYCOCK,

PLEASE INCREASE FERODO AMERICA'S
FMSI BULLETINS TO 270 COPIES.

Thank you

MERRI JOHNSON

FMSI 14022

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

September 8, 1994

Mr. Steve Tilton
Ferodo America, Inc.
One Grizzly Lane
Smithville, TN 37166

Dear Sir:

Enclosed is a copy of Macomb Printing invoice number 39587 dated 6/15/94, for FMSI Catalogs. In order for the Institute to clear our accounts for the printing of the 1994 FMSI Catalog all invoices must be paid. Your invoice is one of several still open.

Anything you can do to help payment of this invoice along would be appreciated. Thank you.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosure

FMSI 14023



FERODO AMERICA INC.
AUTOMOTIVE PRODUCTS DIVISION

1 Grizzly Lane
Smithville, TN
37166
U.S.A.

June 13, 1994

Telephone 615-597-6700
Facsimile 615-597-5243

T&N
Friction Products Group

Mr. Gilbert N. Laycock
Friction Material Standards Institute
588 Monroe Turnpike
Monroe, CT 06468

RE: Committee / Membership Revision

Dear Gil:

I would first like to thank you for your hospitality and efforts for this years' FMSI meeting. It was beneficial for me, as well as, Ferodo America.

With reference to the Data Book and Technical Committee Roster, we need to make a revision. Due to job and responsibility changes, Rick Reel needs to be removed. Merri Johnson has assumed the responsibilities that Rick had at Ferodo America, and she will replace him on this committee also. Steve Wyss, Ferodo America's Test Services Manager, is actively involved with the BMC organization, and their new efforts toward friction standardization, with the SAE J1652 & J1653 tests. If you feel that involving Steve with FMSI and the Brake Performance Study Committee would be beneficial, please advise. If possible, could you contact Merri and Steve with regard to committee meetings, and advise both of them on their responsibilities as a member.

Gil, again, I would like to thank you for all your efforts.

Respectfully,

A handwritten signature in cursive script that reads "Steve Tilton".

Steve Tilton
Aftermarket Sales Manager

lgt

cc: Steve Wyss
Merri Johnson
Gary Smalley

T&N
Ferodo America Inc.
is part of the T&N Group

FMSI 14024

**Facsimile Transmission T&N Industries Inc.**

For the attention of
Gil Laycock**Title/department****777 East Eisenhower Parkway**
Suite 600
Ann Arbor
Michigan 48108-3258

Company
Friction Materials Standards Institute, Inc.**Telephone: 313-663-6749**

Facsimile number
(203) 452-7951

From
Rita M. Grisham**Title/department**

Telephone extension/direct line
313-663-6749**Date**
January 20, 1994

Facsimile number
313-663-0629**Number of pages (including this sheet)**
1

Message**Re: Mailing List**

Gil,

Please add to your mailing list the following person:

Steve Tilton
Sales Manager
Ferodo America, Inc.
One Grizzly Lane
Smithville, TN 37166

I believe you show Dan Cleeton as alternate delegate to me - so I am unsure as to what classification to give Steve. Beginning after my presidency ends in June, one of these gentlemen will become the delegate and the other will be the alternate.

Thanks,

A handwritten signature in cursive script that reads 'Rita'.

Rita M. Grisham

/rmb

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

October 20, 1993

Ms. Merri Johnson
Ferodo America
1 Grizzly Lane
Smithville, TN 37166

Dear Ms. Johnson:

At the APRA Convention in Cincinnati, Ohio, I stopped in the Ferodo America booth and while talking to Linda Parker, I was given a hand-out with new 1994 applications which are available from Ferodo. The list included parts for Chrysler Neon, Ford Mustang, Ford Windstar, Dodge Ram Pick-up and Ford Econoline. Linda suggested that I get in touch with you to get prints for FMSI assignments.

I am enclosing a copy of the hand-out concerning the new parts. Any information that you can send me in terms of lining prints, shoe prints or assembly prints would be appreciated. They need not be detailed manufacturing prints, but, should have sufficient dimensions to denote the general configuration and drill pattern applicable. You may want to look at some prior FMSI assignments as samples.

Any information you can provide is appreciated. Thank you for your assistance.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosure

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.
588 MONROE TURNPIKE
MONROE, CT 06468

FAXFAX***FAX***

TO: Debbie Sherrell

COMPANY: Ferodo America

FROM: Lori Dinihanian

DATE: March 30, 1992

NUMBER OF PAGES: 1 (Including Cover)

MESSAGE:

This is to confirm your fax of today with copy of P.O. 10234.
Shipment should be sometime in May.

Thank you.

FMSI 14027

FERODO
AMERICA

DATE

3/30/92

THIS FACSIMILE TRANSMISSION IS FROM

FERODO AMERICAONE GRIZZLY LANE
SMITHVILLE, TN 37166

THIS TRANSMISSION IS TO

Macomb Printing Co.

THIS TRANSMISSION IS FROM

Debbie Sherrell

NUMBER OF PAGES INCLUDING THIS SHEET

2PLEASE CONFIRM RECEIPT OF THIS FACSIMILE

TELEPHONE# 615) 597-6700 ext. 223

FACSIMILE# 615) 597-8456

Confirming copy of P.O. # 10234.

Thanks,
Debbie

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

March 27, 1992

Mr. Richard Reel
Ferodo America, Inc.
1 Grizzly Lane
Smithville, TN 37166

Dear Rick:

Data Book Bulletin #383 and Shoe Bulletin #165 will be distributed shortly. These are the last Bulletins in which shoe and lining information will be published separately. The future bulletins will be consolidated and will contain both shoe and lining information. The bulletin color will match the current FMSI Catalog color e.g. 1992 Catalog - red, bulletin - pink, 1993 Catalog - green, bulletin - green.

You currently receive extra copies of both Data Book (pink) and Shoe (blue) Bulletins with quantities indicated on the enclosed sheet. We ask that you review the information and indicated the quantity of the consolidated bulletins you wish to receive. Any bulletin quantities of above 25 will be charged at the same rate as the past bulletins.

Please return the enclosed sheet so that our mailing lists for bulletins can be updated. Thank you for your assistance.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosure

CONSOLIDATED BULLETIN

TO: FMSI
588 Monroe Turnpike
Monroe, CT 06468

SUBJECT: Bulletin Mailing List - Extra Copies

FROM: Ferodo America
Company Name

We currently have a standing order for:

300 Data Book Bulletins (pink)

300 Shoe Bulletins (blue)

Considering that FMSI will commence publishing consolidated bulletins with the first bulletin after the data cut-off for the 1992 Catalog, we would like to receive:

 Copies of the consolidated bulletins

Company

Signed By _____

Date _____

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

March 27, 1992

Mr. Dan Cleeton
Ferodo America, Inc.
1375 Heil Quaker Blvd.
Lavergne, TN 37086

Dear Dan:

After the distribution of Data Book Bulletin No. 363 (pink) on March 31, 1992 and Shoe Bulletin No. 165 (blue) on April 7, 1992, we will no longer publish separate lining and shoe bulletins. These are the cut-off bulletins for the 1992 Catalog.

The bulletins published after the two listed above will be consolidated and contain new lining and shoe information. The consolidated bulletins will start at number 1. They will be color keyed to match the Catalog. The 1992 Catalog will have a red cover - the bulletins will be pink. The 1993 Catalog will have a green cover - the bulletins will be green, etc.

Since you receive the white copies of bulletins and run off your own copies we just wanted to make you aware of the change. We will continue to send you the single sided white copies as we have in the past.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

January 13, 1992

Ms. Rita Grisham
Ferodo America, Inc.
1 Grizzly Lane
Smithville, TN 37166

Dear Rita:

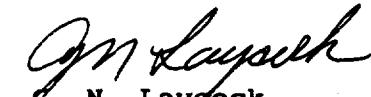
Enclosed is a copy of the "Recommended Procedures for Reducing Asbestos Dust During Brake Servicing" as it appeared in our 1991 Supplement to the 1990 Automotive Data Book. We are about seven weeks away from going to the printer with our 1992 edition of the Automotive Data Book.

In reading the text I see a few areas which require change such as the label requirement under the EPA Ban which has gone away and possibly the tense of a couple of verbs. Obviously you may find more. Would you please review the text over the next 4 to 5 weeks and advise what changes are necessary.

Thank you for your assistance.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosure

FERODO

AMERICA

December 11, 1991

Gil Laycock
Friction Materials Standards Institute, Inc.
588 Monroe Turnpike
Monroe, CT 06468

Gil,

Could you please send the following F.M.S.I. drawings as soon as possible. It seems that I have misplaced my copies.

Disc Pad # 7424

Lining #'s 1443 & 1444

Shoe #'s	S645	S652
	S646	S653
	S647	S654
	S648	S655
	S649	S656
	S650	S657
	S651	

Thanks,



Rick Reel
Friction Products Manager

*mailed
12/16/91*

Ferodo Automotive Products, Inc.
1 Grizzly Lane
Smithville, TN 37166
615/597-6700
FAX 615/597-5243

FMSI 14033

FERODO
AMERICA

FACSIMILE TRANSMISSION

To Facsimile No: 203/452-7951

From Facsimile No: 615/793-5141

Company: FMSI

Location: Ferodo Heavy Duty

Attention: Gil Laycock

From: Dan Cleeton

Location:

Date: October 24, 1991

Message:

Gil:

In addition to the 1308TT print, please send me a print on 1443TT.

Thanks,

Dan

*mailed
10/25/91*

This transmission consists of this page plus 0 more. If you have problems, call 615/793-5177.

FERODO AMERICA

Rita M. Grisham
Vice President, Human Resources

July 22, 1991

Gil Laycock
Friction Materials Standards Institute
588 Monroe Pike
Monroe, Connecticut 06468

Dear Gil:

Please show the alternate delegate for Ferodo America as Dan Cleeton,
Product Manager, 1375 Heil Quaker Blvd., Laverne, TN. 37086.

Thanks.

Regards,



Rita M. Grisham

RMG/skb

cc: D.R. Loftis
J.D. Cleeton

*P.S. - Dan works for Don & Don
requested this change. My
curr note sounds as if I
don't 'love' Don anymore!
Not true.*

*Regards -
R*

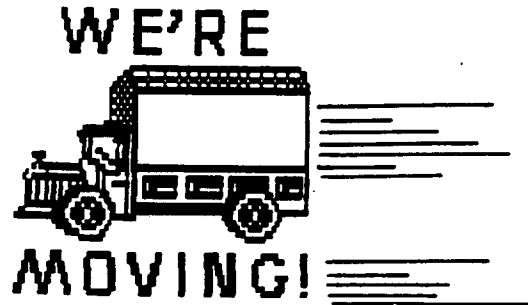
Ferodo America, Inc.
Bldg. B, Suite 205
531 Metroplex Drive
Nashville, TN 37211
615/781-5260
FAX 615/361-3653

A **TN**plc company

FMSI 14035

FERODO

AMERICA



EFFECTIVE OCTOBER 1, 1991

New contact information as follows:

James W. Murray		Ferodo America
Rita M. Grisham	TO	One Grizzly Lane
Penny Ausili		Smithville, Tenn. 37166
Phone (615) 597-6700		Fax: (615) 597-5243
		Private Fax: (615) 597-6727

Donald J. Fiete		Ferodo America
Sammie K. Barrett		Heavy Duty Products Division
Mary E. Buckley	TO:	1375 Heil Quaker Blvd.
Michelle Gipson		LaVergne, Tenn. 37086
Tammy White		
Phone (615) 793-5177		Fax: (615) 793-5141

Remaining at 531 Metroplex Drive (during month of October only) are:

Debbie Wallace	(615) 761-5276
Phil Green	(615) 761-5271
Mark Nugent	(615) 761-5275

Beginning November 1, 1991, these three may be reached at One Grizzly Lane, Smithville, Tenn. (615) 597-6700.

Ferodo America, Inc.
Bldg. B, Suite 205
531 Metroplex Drive
Nashville, TN 37211
615/781-5260
FAX 615/361-3653

A **TN**plc company

FMSI 14036

FRICION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

Mr. Dan Cleeton
Ferodo America, Inc.
570 Metroplex Drive
Nashville, TN 37211

Dear Dan:

Referring to your question concerning the 4591 block thicknesses. I have checked with several manufacturers and have found that all are grinding to thicknesses less than our drawing for 4591 which was released in 1965. Please refer to the following:

FMSI Thickness			
CAM		Anchor	
.593	.732	.721	.546
Manufacturer 1			
CAM		Anchor	
.568	.705	.695	.521
Manufacturer 2			
CAM		Anchor	
.576	.701	.690	.504
Dexter Axle Print - 1985			
CAM		Anchor	
.573	.710	.700	.526

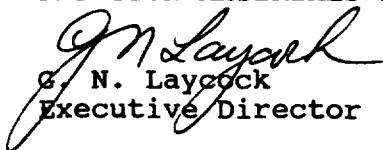
The Dexter Axle print had all tolerancing on the minus side (plus 0 / minus .010).

The conclusion that I would draw from this is that the FMSI print (Shuler Axle) dated August 30, 1965, may have been an O.E. lining print which required a final grind after being applied to the shoe. This is based on a note which appears on the drawing stating that service lining is shown on a different drawing which we do not have.

If you have any further questions do not hesitate to ask.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director



MAILING LISTS
ROSTER
LEDGER CARDS ✓
DELEGATES & ALTERNATES
OFFICERS
BOARD OF DIRECTORS
COMMITTEES

Dear Friend,

Because of the relationship Nuturn has enjoyed with you and your company over the years, we want to share some exciting news. In recognition of our long-standing membership in the T&N worldwide group of Ferodo companies, Nuturn Corporation will soon change its name to Ferodo America, Inc.

Ferodo companies are named after company founder, Herbert Frood, who invented the first modern brake lining in 1908. You may already be familiar with the name. Ferodo products are original equipment on cars or trucks made by Daimler Benz, Rolls Royce, Jaguar, Audi, Volvo and Fiat. Using the Ferodo name should enhance our global technological linkage, keep our sales strong and insure continued growth.

In the U.S., Ferodo America will continue to manufacture original equipment and replacement pads and linings for major automobile and truck manufacturers and the aftermarket.

Only our name is new. The company as you know it will not change. The same people will continue doing the same jobs at all our locations.

We look forward to a continuing relationship with you.

Sincerely,

Rita M. Grisham
Vice President
Human Resources

RMG/sba

Nuturn Corporation
Corporate Offices
570 Metroplex Drive
Nashville, TN 37211
615/834-3800
Fax 615/361-3653 Telex 555128

FMSI 14038

FERODO

AMERICA

THE GLOBAL NETWORK OF FERODO COMPANIES **Automotive & Heavy Duty** **Friction Research and Manufacturing**

Worldwide Non-Asbestos Research

With operations on six continents, the T&N network of Ferodo companies is the largest friction research and manufacturing organization in the world. At primary research facilities in Smithville, Tennessee, and various locations in the U.K. and Europe, over 200 friction researchers work to develop powerful new non-asbestos compounds. Development facilities include nearly three dozen dynamometers, an extensive test fleet and prototype manufacturing departments.

In the U.S., Ferodo America, Inc. (formerly Nuturn Corp.) led the shift to non-asbestos block compounds in the heavy duty trucking market of the early 1980's. And in 1984, it was the first to develop and introduce non-asbestos/non-metallic brake pads to the automotive aftermarket.

Technical assistance agreements signed in the 1980's and a joint venture concluded in 1990 with Hitachi Chemical Company and Japan Brake Industrial Company further enhanced our global presence by bringing Japanese friction technology to Ferodo.

93 Years of Friction Leadership

Founded in 1897, Ferodo, Ltd. invented the first modern brake lining in 1908 -- a resin-impregnated woven asbestos compound. In 1925, T&N plc purchased Ferodo. Acquisition of other friction companies followed. In 1977, T&N purchased the Brake Products Division of Maremont Corporation and formed Nuturn Corporation. More recently, Abex holdings in Spain and France were purchased in 1989, and a minority share in Japan Brake Industrial was acquired in 1990.

Extensive Original Equipment Approvals

In Europe, Ferodo brake pads and linings are original equipment on Rolls Royce, Mercedes Benz, Jaguar, Volvo, Audi and Fiat models. In the U.S., Ferodo America manufactures OE pads and linings for major automobile and truck manufacturers.

Ferodo Global Operations

	U.S.A.	Africa
	United Kingdom	-Egypt
	Europe	-Ghana
	-Italy	-Kenya
	-France	-Morocco
	-Germany	-Nigeria
	-Spain	-South Africa
	-Yugoslavia	-Sudan
	Asia	-Swaziland
	-India	-Tanzania
	-Japan	-Tunisia
	-Jordan	-Zambia
	-Malaysia	-Zimbabwe
	-Pakistan	Latin America
	-South Korea	-Mexico
	-Sri Lanka	-Trinidad
	-Turkey	Australia

Ferodo America, Inc.

A **TN** plc company

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

August 21, 1990

Mr. Rick Reel
Nuturn Corporation
1 Grizzly Lane
Smithville, TN 37166

Dear Rick:

At the June 1989 Annual Membership Meeting a Rivet Pattern Subcommittee of the Data Book and Technical Committee was established. Your name was submitted as a possible participant on this Committee.

A number of concerns were also expressed by several members of the Institute concerning the function of the Committee and its effect upon the Institute. After obtaining a legal opinion from the Institute counsel, reviewed by the Board of Directors and a careful reading of the Institute Constitution, it was decided that the Committee function to "Recommend" Rivet Patterns was not in the best interest of the Institute. It also did not concur with Article II, Section d of the Institute's Constitution which reads in part:

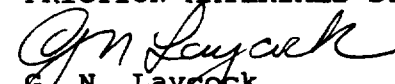
The object of this Institute shall be to collect, assemble and disseminate to members of the said industry, scientific, engineering, technological, statistical and other relevant information...

The decision to disband this Committee was made by the Board of Directors at the 1990 June Annual Meeting on June 11th and presented to those members present at the Membership Meeting on June 12th. This decision is detailed in the Minutes of the Membership Meeting which will be distributed shortly.

The Institute would like to thank you for your willingness to participate on this Committee and support of the Institute. We look forward to your continued support. Thank you.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

July 19, 1990

Mr. Richard A. Reel
Nuturn Corporation
1 Grizzly Lane
Smithville, TN 37166

Dear Mr. Reel:

Our records show that we are sending you 300 copies of Data Book Bulletins and 300 copies of Shoe Bulletins. The first 25 copies are "No Charge". We have been charging \$.05 per page for quantities beyond the initial 25.

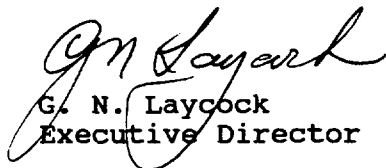
Due to the cost of "outside" printing, collating and stapling it is necessary to raise the per page cost to \$.10 effective for Bulletins after July 1, 1990. Since you may wish to change the number of copies which you receive, would you please complete the enclosed form and return it to the Institute office.

As another option, the Institute can send you single sided master copies on white paper of Bulletins if you wish to run your own copies for distribution. You may wish to consider this option.

We apologize for having to raise the prices for the Bulletins, however, we have been selling these at a loss for almost a year.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosure

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

May 4, 1990

Ms. Rita Grisham
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Dear Rita:

Enclosed is the Membership Committee Report as it will appear in the Annual Meeting Report Booklet.

If you want to make any revisions, please let me know.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosure

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

September 24, 1990

Mr. Larry Mintman
Certified Brakes
Allied-Signal
12730A Westport Road
P. O. Box 23089
Louisville, KY 40223

Mr. Larry Belans
Friction Material Company, Inc.
1849 East Sabine Street
Huntington, IN 46750

Ms. Rita Grisham
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Dear Larry, Larry and Rita:

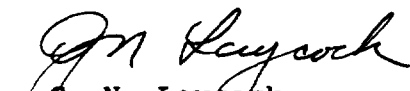
As noted in my letter of August 29th, concerning contingency planning enclosed is a signature form for the Merrill Lynch WCMA Account. Would you please sign and forward to Larry Belans in the enclosed envelope.

- o Larry Belans - Please sign and forward to Rita Grisham in the enclosed envelope.
- o Rita Grisham - Please sign and return to the Institute office in the enclosed envelope.

Hopefully, I will remember to bring the form to the meeting in 1992 so we do not have to play Post Office tag.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosures

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE

MONROE, CT 06468

April 18, 1990

Ms. Rita Grisham
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Dear Rita:

Attached is a copy of your June 1989, Membership Committee Report. You may wish to modify or re-write based on the changes listed below.

Active Members

Now stands at 24 with one addition in process. It should be completed before June if everyone approves in a timely manner.

ADDED: Ultra Brake Inc. - Sanford, Florida
Tenneco Automotive Brake - Cartersville, Georgia
(IN PROCESS) - Braketech, Inc. - Charlotte, North Carolina

Regional Members

Two members added at the Board of Directors meeting, June 19, 1989, Fibro Friction Inc. - Montreal, Quebec, Canada and Fox Friction Mfg. Inc. - Mississauga, Ontario, Canada. Additions since July 1, 1989, are - Beral Bremsbelag GmbH - Federal Republic of Germany, Valeo Inc. - Livonia, Michigan and Sundaram-Abex Limited - Madras, India.

Losses since July 1, 1989 - Cantire Products Inc - Mississauga, Ontario, Canada.

Regional Membership now stands at 38.

Licensees

Loss of 1 - Automet Industries Inc. - Rexdale, Ontario, Canada. Licensee Members are now 21.

Ms. Rita Grisham
April 18, 1990
Page 2

You do not have to rush this back to me. I am just starting the wheels turning on the "easy" reports for the annual meeting before I get to the financial reports the first of next month.

If you would, please, put the report together in your words. (Assume that Braketch application is accepted) and send it back to me. We will put it on the computer so that any last minute changes can be easily made and have it ready to print and run off copies for the meeting.

I am also including a copy of your Health and Environmental Affairs Report from last year. If you would, at your "leisure", update for this year. Obviously, the major item was the asbestos ban, but, anything else you feel is pertinent is fine. I personally, have referred to your report several times when we were receiving calls after the ban was announced specifically in the area of what the rest of the world was doing about asbestos or its replacements.

Thank you.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE



G. N. Laycock
Executive Director

GNL:ld
Attachments

JUNE 1989 REPORT

MEMBERSHIP COMMITTEE

The most significant changes in the Membership roster came with the Regional Membership. As noted below, Regional Membership rolls increased significantly. There was no net change in the Active Membership roster and Licensees had a small net increase.

1. The total Active Members remained unchanged at 22.
2. Regional Members increased from 29 to 34.
3. Licensees increased from 20 to 22.

ACTIVE MEMBERS

While the Active Member count remained unchanged at 22, this was due to a loss of one Member and the gain of another. Virginia Friction Products of Walkerton, Virginia was terminated as a Member, and its assets were sold to another party. Performance Friction Corporation of Gastonia, North Carolina joined the Institute during the year.

REGIONAL MEMBERS

As noted, there was a net increase of Regional Members from 29 to 34. Our report of June 1988 understated the final Regional Member roster at 28 rather than 29, anticipating the termination of Artazcoz of Argentina which subsequently paid its Membership Dues.

The net increase of 5 Regional Members in 1988-89 came about with six new Regional Members and the loss of one Regional. The six new Regional Members were: Borg Warner do Brasil, Duramax, S.A. de C.V. of Mexico, Frictiontech, Inc. of Canada, Goshen Industries of Taiwan (approved at the June 1988 meeting), Kubota Freios of Brazil, and Total Brake Industries of Canada (also approved at the June 1988 meeting). The one loss was that of Pyeong Hwa Clutch of Korea which resigned.

LICENSEES

The two new Licensees joining in 1988-89 were: Semac Industries of Canada (approved at the June 1988 meeting) and OJD Trading ApS of Denmark. There were no resignations or terminations of Licensees during the year.

Respectfully submitted,

Rita Grisham, Chairman

JUNE 1989 - REPORT

HEALTH AND ENVIRONMENTAL AFFAIRS

There have been no meetings during the past year of the Health and Environmental Affairs Committee. Several regulatory matters have been monitored, however, and the following report is submitted on behalf of the committee as a summation of significant events.

EPA Ban Proposal - Since mid-year, 1988, at the time of the last official report to this group, a number of important events have occurred in the regulatory situation in the U.S. pertaining to the proposed ban and phase out of the commercial uses of asbestos by the U.S. Environmental Protection Agency.

Just prior to the last meeting in Monterey (in April, 1988), the new support case from the Agency was made available for public comment. FMSI as a body did not submit additional comment (since such comment had been made in 1986). Member companies, however, did submit comment, as did the Asbestos Information Association, the Alternative Materials Institute, the Asbestos Institute and other interested groups at home and abroad.

Following these submissions in September and October, 1988, EPA advised industry that they intended to prepare and publish a final regulation before the inauguration of President Bush on January 20 of this year. A draft, final regulation was, indeed, completed and forwarded to the President's Office of Management and Budget on December 16, 1988, for review as required by Executive Order 12291. It has not been possible to obtain the specifics of the draft, but it has been learned that essentially little has changed except that timing has been altered from a ten year phase-out period to a seven year period for most commercial uses.

At this writing six months have passed and OMB continues to assess and evaluate the draft regulation and to conduct discussions with EPA. EPA has indicated that "considerable rewrite" will have to occur after the rule is returned from OMB; some products have been removed from the ban, but there is no reason to believe that friction is one of these products. The regulators are currently advising that they anticipate a "summer release". A verbal update will be given at the Annual Meeting if there is a change in this uncertain situation.

NESHAPS - Since last meeting, proposed rulemaking has been issued for the Asbestos NESHAP (National Emissions Standard for Hazardous Air Pollutants). It is important to note that this is a proposal -- not a final regulation. This amendment (40 CFR Part 61) would require control devices and fugitive emission monitoring, along with additional record-keeping and reporting for asbestos manufacturing and fabricating operations. Hearings were held in February, 1989; substantial comments were received and are under advisement. It is expected that the rule will be issued in about a year. Meanwhile the provisions of Subpart M, dated April 5, 1984, remain in force.

OSHA 29 CFR, Part 1910.1000 Air Contaminants - SUBPART Z - on January 19, 1989, OSHA issued final Rules and Regulations for hundreds of "air contaminants". Essentially, they removed Table Z-1 (which was a frequent

reference for determining permissible exposure limits (PEL). They also re-published tables Z-2 and Z-3. The effective date for the PEL's specified in the Final Rule Limits columns of Table Z-1-A was March 1, 1989, however general industry has until September 1, 1989 to have controls in place to insure the limits are not exceeded. Essentially, this provision brings about agreement with the Threshold Limit Values which are published by the American Conference of Governmental Industrial Hygienists (ACGIH). Of particular interest in the OSHA revision is an extensive appendix which shows the sampling and analytical methods which have been validated by NIOSH or others and which are the acceptable methods for determining exposures to the individual substances. Often in the past it was difficult for a smaller company to determine the appropriate testing procedures. Overall, 428 substances are listed (168 for the first time and 91 have new limits which are generally lower than the old ones). Nonetheless, if ACGIH has been consulted by a business in the past, there will not generally be major problems with the new OSHA rules.

On the international scene, as related to asbestos, the following may be of interest as an update on the approach in other countries:

Austria	effective 1/1/88 a ban on the use of asbestos-containing brake linings and clutches for cars
Denmark	effective 1/5/88 ban on asbestos, with an exemption "until further notice" for friction materials
Germany	effective 7/1/89 no production of friction which contains asbestos. Previously had been allowed (with exposures below 0.5 f/ml)
Norway	forbidden to import or sell asbestos-containing products without government permission
Sweden	principally a ban, with some uses allowed where no technically feasible substitutes are available, with approval from authorities

Many countries have bans on spraying and many ban crocidolite and/or amosite; labeling is more universally required than in the past. Of interest, perhaps, is that in France, factories must use the same standard of engineering controls for alternate fibers as they do for asbestos and in Japan if a product contains no more than 5% asbestos, it is considered asbestos-free.

This committee will continue to monitor the regulatory process and keep Institute members advised of health and environmental matters which are of general interest.

Respectfully submitted,

Rita M. Grisham, Chairperson

NUTURN CORPORATE OFFICE

NEW MAILING ADDRESS

NEW PHONE NUMBER(S)

EFFECTIVE IMMEDIATELY

BUILDING B, SUITE 205
531 METROPLEX DRIVE
NASHVILLE, TN 37211

⁶¹⁵
PHONE: 781-5260

FOLLOWING ARE NEW
PRIVATE PHONE NUMBERS

<u>NAME</u>	<u>NUMBER</u>	<u>NAME</u>	<u>NUMBER</u>
SAMMIE BARRETT	781-5261	ALLEN KING	781-5277
MARY BUCKLEY	781-5267	KEN LAWSON	781-5275
DONNA DRAKE	781-5269	LINDA MORRIS	781-5288
DON FIETE	781-5270	JIM MURRAY	781-5266
PHIL GREEN	781-5271	KATHY SOILEAU	781-5263
MICHELLE GIPSON	781-5262	DEBBIE WALLACE	781-5276
RITA GRISHAM	781-5272	TAMMY WHITE	781-5264
DIANE HARLOW	781-5273	MARGA ZAGO	781-5265
JIM KELLER	781-5274		

11-27-90

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

August 9, 1989

Mr. Frank C. Skelton
Nuturn Corporation
~~725 Allens Chapel Road~~
Smithville, TN 37166

1 GRIZZLY LANE

Douglas

*Please Change Address
ON BPSC member card
when ever else it occurs*

6-1

Dear Frank:

It's Institute practice after election of Officers and Directors to re-organize the Committee. Mr. Max Sleeth, President would like you to serve as a member of the Brake Performance Study Committee.

7/6/89

Others asked to serve on this Committee are:

William F. Wood, Chairman
Wayne W. Matthes
Edward R. Koss
Norman Abbott
Paul A. Myers
Wayne F. Fowler
Edward Kaufman

Motion Control Industries
Abex Corporation
Allied Automotive
Certified Brakes Div.
PMI - R&D Center
Motion Control Industries
Friction Materials, Inc.

Will you accept? For your convenience you may wish to return this letter as your acceptance. A stamped return envelope is enclosed.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE

G. N. Laycock
G. N. Laycock
Executive Director

Accepted: *Frank C. Skelton*
(Signature)

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS N. J. 07652

August 3, 1989

Ms. Rita Grisham
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Dear Rita:

As I noted in our conversation yesterday, the EPA sent a copy of the "Asbestos Ban" to the Institute. They also sent a copy of their News Release of July 6, and "Fact Sheet" concerning the ban.

I thought you might be interested. Copies are enclosed.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE

G. N. Laycock
Executive Director

GNL/dr
Enc.

FMSI 14051



FACSIMILE TRANSMISSION

To Facsimile No: 1-201-845-0440 From Facsimile No: (615) 361-3653

Company: FMSI

Location: Nuturn Corporate

Attention: Gil Laycock

Name: Rita Grisham

Location: _____

Date: June 29

Message:

Gil,

Thanks to you and to Ed for a great meeting again at Sawgrass. Chip and I just returned last night from the vacation we started when FMSI ended. As one would suspect, I had a desk laden with paper awaiting my return. One of the items deals with the EPA ban, which some of our members might find interesting. It may be that it has hit the press by now as well...I didn't even read the newspapers last week!

On June 19, the Office of Management and Budget approved EPA's draft final regulation on commercial uses of asbestos, so even as I spoke at our meeting, the wheels were turning!! A final regulation has made its way to EPA Administrator Reilly's desk; at this writing, he is out of the country, however. The people that work for Reilly are planning a press conference next Thursday (July 6), but since Reilly hasn't had an opportunity to say yea or nay to this conference, there could be some change in this. The Asbestos Information Association has not seen a copy of the regulation although it is rumored that the National Resources Defence Council (NRDC) has seen one and is "furious"...whatever that means.

I will be in Washington on July 19 for a meeting to review the regulation, which AIA feels they will have by that time. Between now and then, however, I will be watching the press for any "leaks" and will keep you posted. AIA plans a press release as soon as they know the details and you are on their mailing list to receive a copy.

Regards,

Rita M. Grisham
Health and Environmental Affairs

This transmission consists of this page plus - 0 - more. If you have problems, call (615) 834-3800.

FMSI 14052

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

January 23, 1989

Mr. R. J. Bracali
Tweddle Litho Company
24000 Harper Avenue
St. Clair Shores, MI 48080

Dear Ron:

Would you kindly make the following shipment from our inventory of the
1988 Automotive Data Books:

Ship 520 copies (13 cartons, each with 40 copies) to:

Nuturn Corporation
Heavy Duty Products Division
570 Metroplex Drive
Nashville, TN 37211

Paul 4/17/89

Mark all cartons: P.O. 147130

Please ship these by Truck, prepaid. When shipment is complete and bill-
ing is on hand, please:

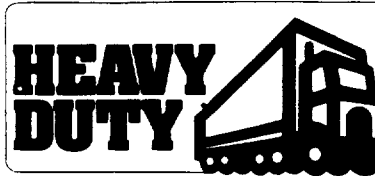
- (1) Advise date of shipment and carrier
- (2) Bill the Institute for the freight charges.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

(R)

**PURCHASE ORDER****147130**

- IMPORTANT -

THIS ORDER NUMBER MUST APPEAR
ON ALL PACKING SLIPS, INVOICES,
PACKAGES AND CORRESPONDENCE.
DUPLICATE INVOICES REQUIRED FOR
EACH SHIPMENT.

TO:

Mr. E. W. Drislane
Friction Materials Standards
Institute, Inc.
East 210 Route 4
Paramus, NJ 07652

VENDOR NO.

DATE: 1/20/89

**INVOICE
AND
SHIP TO:**

NUTURN CORPORATION
HEAVY DUTY PRODUCTS DIVISION
570 METROPLEX DRIVE
NASHVILLE, TENN. 37211

**SHIPPING
INSTRUCTIONS:**

FOR ALL SHIPMENTS
PLEASE CALL
(615) 834-3800
FOR ROUTING INSTRUCTIONS

SHIP VIA:

F.O.B.:

TERMS:

DELIVERY REQUIRED
AT OUR PLANT:

THE TERMS AND CONDITIONS APPEARING ON THE REVERSE SIDE ARE PART OF THIS ORDER.

ITEM	QUANTITY	UNIT	DESCRIPTION	PRICE	UNIT
1.	520	ea.	1988 Automotive Data Books (Green)	\$ 1.16	ea.

SALES TAX EXEMPTION NUMBER: 2-621005251-002-6

PLEASE ACKNOWLEDGE PRICE AND DELIVERY DATE. SIGN AND RE-
TURN ACKNOWLEDGMENT COPY. NUTURN PART NUMBER MUST BE
CLEARLY MARKED ON EACH PACKING SLIP.



NC-3605 REV. 7/83

VENDOR

M. Lamas
AUTHORIZED SIGNATURE

NUTURN CORPORATION

FMSI 14054

TERMS AND CONDITIONS

1. Acceptance of this order must be made by return mail and must state the date of shipment, or Buyer shall not be liable for the purchase price of the goods delivered pursuant hereto.
2. Acceptance of this order shall be effective and binding upon Buyer must be limited to the terms hereof, and shall contain no terms other than the terms hereof. Without limiting the generality of the foregoing, it is expressly agreed that no changes are to be made in the terms, conditions, price or delivery without the Buyer's prior express written authority therefor, and until such written authority is given, such proposed changes shall be deemed counteroffers and shall not be a part of the agreement between the parties.
3. By accepting this order, the Seller guarantees that the articles described herein and the sale or use of them will not infringe any United States or foreign Letters Patent, and the Seller agrees to defend, protect and save harmless the Buyer, its successors, assigns, customers and users of its products, against all suits or laws, or in equity, and from all damages, claims and demands for past or alleged infringement of any patent by reason of the use of the articles hereby ordered. If said articles are protected by one or more patents and a decree or judgment be entered in a court of competent jurisdiction holding any such patent or patents invalid, or so limited in scope as to impair its protection commercially, the contract resulting from the acceptance of this order may forthwith be cancelled by the Buyer.
4. By accepting this order, the Seller guarantees that with respect to the production of the articles and/or the performance of the services covered by this order, it has fully complied with the Fair Labor Standards Act of 1938, as amended.
5. No agreement or other understanding in any way modifying the conditions of the contract resulting from the acceptance of this purchase order will be binding upon the Buyer unless made in writing and signed by the Buyer's authorized representative.
6. No charge will be allowed for packing, crating, drayage or storage unless stated herein.
7. The Buyer assumes no obligation for materials shipped in quantities different from those specified in this purchase order.
8. Buyer shall be free to alter, amend or revoke this order at any time before its acceptance by seller.
9. Buyer reserves the right to cancel this order or any portion thereof if not filled as specified.
10. Payment for material on this order shall not constitute an acceptance thereof but all material shall be received subject to Buyer's inspection and rejection. Defective material or material not in accordance with Buyer's specifications will be held for Seller's instruction and at his risk. No goods returned as defective shall be replaced without an order.
11. Seller expressly warrants that all articles, material and work covered by this order will conform to the specifications, drawings, samples or other description furnished or adopted by the Buyer, and will be fit and sufficient for the purpose intended, merchantable, of good material and workmanship and free from defect. The Seller shall not without first obtaining the written consent of the Buyer, make any change in design, substitution of materials, or deviation from specifications, on the material or parts covered by this order.
12. All tools, gages, dies, jigs, fixtures and patterns (1) furnished by the Buyer or (2) which the Buyer specifically authorizes the Seller to acquire for work on this purchase order, shall be listed and maintained in suitable condition to do the work, by and at the expense of the Seller, and returned to the Buyer at any time upon request, f. o. b. Seller's plant. Seller agrees not to use or permit the use of any such tools, gages, dies, jigs, fixtures and patterns in the performance of any contract unless the buyer is a party to said contract.
13. When invoices subject to cash discount, are not mailed on date of shipment, or are not accompanied by bill of lading, discount period will begin on day both invoice and bill of lading reach Buyer.
14. This order is not to be billed at a price higher than last quoted or charged by the Seller unless price is stated on the face of this order.
15. Complete PACKING LIST must accompany each shipment.

ROADWAY EXPRESS, INC. P.O. BOX 1111 AKRON, OH 44393-0001 (RC 7Y) (EIN 34-0492670)		PRO NO	
ROWY PIU DATE	B/L OR GBL NO	ITEM/TENDER NO	RATE CODE
PO NO/DEPT NO		BEY CL CODE	
SHIPPER		SHPR CODE	BEY CL AMT
CARRIER		DUE FM BEY CL	
COMMENTS		RC/BC	BILL STA

This is your INVOICE. Return REMITTANCE copy with payment.
 To ensure proper credit, the complete freight bill (Pro) number and amount of freight bill being paid must be shown on your check.

REMIT TO:
ROADWAY EXPRESS, INC.
P.O. BOX 1111
AKRON, OH 44393-0001

Terms For Approved Credit Customers: 15 Calendar D.

FREIGHT BILL (PRO) NUMBER		RUSH RUSH	
263-431261-7			
ADV CL	CL PIU DATE	ADV CL FRT BILL NO.	INVOICE
ADV CL AMT	DUE FM ADV CL	ROWY PIU UNIT	

TWEDDLE LITHQ
24000 HARPER
ST CLAIR SHORES MI 48080

NO. PIECES	PKG.	H/M	DESCRIPTION OF ARTICLES	CODE	WEIGHT (LBS)	RATE	CHARGES
1	840		PRINTED MATTER IT 161870	C70	460	2364	113.47
				DEF	20	2364	4.73
				AS	500		
				INTRODUCY			
				TRAQUARY			
				TTU COY	480		
				CEZIECHLOV			
				NOISELIXE			

INVOICE

PAYMENT DUE BY 03-05-89

118.20

4\ ORIGINAL FREIGHT BILL (INVOICE)

(R)

INVOICE

FRICITION MATERIALS STANDARDS INSTITUTE

6616 ROUTE 4 • PARANAH, NEW JERSEY 07652 • PHONE (201) 648-0448

SOLD TO

Futura Corporation
 Heavy Duty Products Div.
 370 Montross Drive
 Madison, NJ 07721

SHIPPED TO

Same

DATE	QUANTITY	UNIT PRICE	TOTAL
03-01-80	03-11-80	Heavy Duty Products Div.	000633
520	1900 Automotive Data Book	\$1.16	599.20
	Friction Products - Heavy Duty Division		118.20
	Friction		1721.40
	Shipment was made by air to New York City, New York		
	Dr. Clark R. ...		
	was by air to New York City, New York		

Item # NV-R75 ©Wheeler Group Inc.

THANK YOU

FMSI 14057



October 15, 1987

Ed Drislane
Friction Materials Standards Institute, Inc.
East 210 Route 4
Paramus, NJ 07652

Dear Ed,

If at all possible, we would like to get drawings for the following
FMSI part numbers:

2026 Primary & Secondary
2026-T Primary & Secondary
2042 Primary & Secondary
2042-AT Primary & Secondary
2073 Primary & Secondary

2131-T Primary & Secondary
2137 Primary & Secondary
2137-T Primary & Secondary
2157-T Primary & Secondary

Sincerely,

A handwritten signature in cursive script that reads "Rick Reel".

Rick Reel
Friction Applications Engineer

cc: S. Venkataraman

10/17/87

Nuturn Corporation
Automotive Products Division
1 Grizzly Lane
Smithville, TN 37166
615/597-6700 Fax 615/597-5243

FMSI 14058



September 08, 1987

Ed Drislane
FMSI
East 210, Route 4
Paramus, New Jersey 07652

Dear Mr. Drislane:

Please send to my attention the following prints:

4515 H
4699

Thank you,


Rusty Lawson
NUTURN CORPORATION
P.O. Box 739
New Castle, Indiana 47362
(317)-521-3882

RWL/sm

Nuturn Corporation
Heavy Duty Products Division
1112 South 25th Street
New Castle, IN 47362
317/521-3882 Fax 317/521-3040

FMSI 14059

FRICITION MATERIALS STANDARDS INSTITUTE, INC.
BERGEN MALL OFFICE CENTER
E. 210 ROUTE 4
PARAMUS, N. J. 07652

July 31, 1987

Ms. Rita Grisham
Nuturn Corporation
570 Metroplex Drive
Nashville, TN

Dear Rita:

At the Membership Meeting in Scottsdale, certain foreign numbers for clutch facings were discussed. When I saw some of the numbers, I advised that these were British Friction Materials Council Numbers.

Like our FMSI Numbers, the British Council Numbers are copyrighted. As I do not wish to violate their copyrights, I do not feel it would be proper to publish these numbers as such. However, I believe there should be no objection to my listing them with cross-overs to the FMSI Numbers in private correspondence. I have enclosed a complete cross-over the British Council clutch facing numbers to the FMSI numbers as I have them. With their system, there can be more than one British Council Number for one FMSI Number. While my listing may not be in harmony with other listings, I believe they are correct as listed.

Per my statement at the meeting, I am sending along this information to those who may be interested.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

Copies:
Rick Reel
Frank Skelton
Joe Sisson

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

December 12, 1986

Mr. Frank Skelton
Nuturn Corporation
725 Allens Chapel Road
Smithville, TN 37166

Dear Frank:

This is to acknowledge receipt of your prints and samples for the Nuturn rear pads on the 1987 Thunderbird rears. I have taken the measurements needed and have mailed back the hardware (The lined pad assembly, the basic steel, and the insulator). These were sent in separate mailing today.

For your information, the FMSI assignment will be 7239A-D347.

Thank you for your help with this assignment. Merry Christmas.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

FMSI 14061

12-5

ED

FRANK

REAR DISC PAD FOR 87 T'BIRD

I & O ARE IDENTICAL

BOTH HAVE NOISE SUPPRESSION GASKETS

& ANTI RATTLE SPRINGS

INCIDENTALLY, WE SHIP THE BLANK PADS TO

VARGA - THEY DRILL HOLES, AND GRIND ETC

AFTER ASSEMBLY

Frank



October 22, 1986

Mr. Ed Drislane
FMSI
East 210 Route 4
Paramus, NJ. 07652

*Shorn
#1139
10/27/86*

Mr. Drislane:

Please supply me with drawings of the following FMSI assignments:

4480
4676
4681
4682

Thank you,

Rusty Lawson

Rusty Lawson
NUTURN CORPORATION
P.O. Box 739
New Castle, Indiana 47362
(317)521-3882

RWL/sr
cc: D. Loftis

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

September 16, 1986

Mr. R. J. Bracali
Tweddle Litho Company
24000 Harper Avenue
St. Clair Shores, MI 48080

Dear Ron:

Would you please make two shipments from our stock of 1986 Automotive Data Books. They are as follows:

CERTIFIED BRAKES, LOUISVILLE, KY

Please ship 972 copies (18 cartons, each with 54 copies) to:

Certified Brakes
Lear-Siegler Company
12730A Westport Road
Louisville, KY 40223

Mark: P.O. P-211604

Please ship prepaid by ABF Freight.

✓ NUTURN CORPORATION, SMITHVILLE, TN

Please ship the exact same number of 972 copies (18 cartons, each with 54 copies) to:

Nuturn Corporation
725 Allens Chapel Road
Smithville, TN 37166

Mark: P.O. 25745

PC 11-13-86

Please ship prepaid by Truck.

* * * * *

When these shipments are made, please advise freight charges, carrier and date shipped. Then bill us for the charges.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

(C)

INVOICE

FRICION MATERIALS STANDARDS INSTITUTE

D-518 ROUTE 4 • PARSIPPAN, NEW JERSEY STAGE • PHONE (201) 345-0440

SOLD TO

SHIPPED TO

Ballou Corporation
725 Allens Chapel Road
Bucksville, TN 37026

**Robert Corporation
725 Allene Chapel Road
Shelville, TN 37166**

Abstract

[illegible]

Item # NV-R75 © Wheeler-Group Inc.

THANK YOU

FMSI 14065



August 20, 1986
PE86-185

Mr. E.W. Drislane
Executive Director
Friction Materials Standards Institute
Bergen Mall Office Center
East 210 Route #4
Paramus, New Jersey 07652

Dear Ed:

Enclosed are the data (I hope) on the Clutch Facings you requested. I was able to procure this data from Ferodo.

First is the facsimile data which isn't too clear, so I waited until the actual prints (enclosed) arrived.

Best regards,

Frank C. Skelton
Frank C. Skelton

cc: E. Parker

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS N. J. 07652

August 6, 1986

Mr. Frank C. Skelton
Nuturn Corporation
725 Allens Chapel Road
Smithville, TN 37166

Dear Frank:

We are trying to find prints on two clutch facings for certain Iveco Trucks sold in North America. The sizes are as follows:

325 mm OD x 200 mm ID x 4.0 mm Thick
(12.80 x 7.87 x .157)
Facing has 20 D & C holes, 20 through holes

11-7/8 OD x 7-1/2 ID x .135 Thick
Facing has 20 D & C holes, 20 through holes

These facings are probably O.E. sourced in Europe. I have been unable to find anything on these sizes. If you have prints or know the British Friction Materials Council numbers for these facings, I would appreciate your help.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/dr

THIS FACSIMILE TRANSMISSION IS FROM
F E R O D O L I M I T E D

CHAPEL-EN-LE-FRITH
STOCKPORT, SK12 6JP.

FACSIMILE - DIRECT LINE - 0298 812600
TELEX 667784
TELEPHONE 0298 812520

This Transmission is from A.V. Holt
To NUTURN CORP - SMITHVILLE
Number of pages including this header sheet 3

010 1 615 ~~3613653~~
5975243

DATE AUGUST 12 1986
MESSAGE

FOR FRANK SKELTON

IVECO CLUTCH FACINGS

1) 12.8 x 7.88 IS 46 /BB/1

WVA NUMBER
34038

FITS OM TRUCKS (12 TON)

40 G3 RIVETS

2) 11.88 x 7.5 FITS LARGER RANGE INCLUDING
FIAT TRUCKS REFERENCE IS 1/80/1
WVA NUMBER 34038

40 G3 RIVETS.

FAX DRAWINGS WITH THIS SHEET
WILL ALSO MAIL THEM TODAY

KIND REGARDS

TONY HOLT.



August 27, 1986

Mr. Ed Drislane
Friction Materials Standards Institute
East 210 Route 4
Paramus, New Jersey 07652

Dear Ed:

Confirming our conversation of August 25, 1986, I had asked permission to use FMS 4607 and FMS 4544 on two brake shoes we are presently having produced. We are going to cast one of those numbers in each shoe and that will enable the fleet mechanic to install the proper block number on the shoe at the time of reline.

Please send me a letter of confirmation for our files.

Thank you very much.

Sincerely,



David T. Rex
Product Manager

DTR/lwf

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

September 3, 1986

Mr. David T. Rex
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Dear David:

Per our earlier conversation, and your letter of August 27, 1986, the Institute grants Nuturn Corporation permission to use the FMSI Numbers by casting the numbers on the shoes for identification of brake blocks at the time of reline.

This permission is granted to Nuturn Corporation as an Active Member of the Institute and continues on condition of Nuturn Corporation's continuing Membership in the Institute.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

FMSI 14070

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

7 May 1986

Mr. Steve Tilton
Nuturn Corporation
725 Allens Chapel Road
Smithville, TN 37166

Dear Mr. Tilton:

I am enclosing all the cross reference information that we have in our files at the Institute. Would you please copy it and send one copy to anyone at Nuturn who is interested.

As I noted at the top of BULLETIN NO. 854, all shoe cross reference data is in either that Bulletin (No. 854) or in BULLETIN NO. 540, which is included with this letter.

I no longer have Bulletin No. 600, 641, 717, 754. That data is in Bulletin No. 854.

As I noted in BULLETIN NO. 853, all lining/facing cross reference data is in either that Bulletin (No. 853), or in BULLETIN NO. 536, or in the original cross reference listing of September 1963, all of which is included with this letter.

I no longer have Bulletin No. 599, 642, 718, 753. That data is in BULLETIN NO. 853.

I am including our special BULLETIN NO. 822 which was for kits or lined shoe assembly cross reference. This is the only bulletin issued for kits and lined shoe assemblies.

With this mailing you have all cross reference information available from the Institute.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

Copy: Frank Skelton

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

October 18, 1985

Mr. Robert H. Nelson
Nuturn Corporation
725 Allens Chapel Road
Smithville, TN 37166

Dear Rob:

Per our conversation, I am enclosing copies of papers dealing with the R. L. Polk Company back in 1977. These include excerpts from the minutes of the Board of Directors meeting of June 21, 1977.

If the work were to be done exclusively for Nuturn, an Active Member of the Institute, we would grant permission for use of the FMSI Numbers. We would appreciate the opportunity to make specific permission in writing for their use by R.L. Polk.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director



Joe Sisson
944 Alyssum Road
Carlsbad, CA 92008

Edward W. Drislane
Friction Materials Standards Institute
E 210 Route # 4
Paramus, NJ 07652

September 17th, 1985

Dear Ed,

Enclosed is a list of import clutch facing part numbers.

Can you offer a FMSI number inter-change for any of them?

Most of these part numbers are used by Akebono and/or Fasco
(Fuji Brake).

Thanks for your help, Ed.

Sincerely,


Joe Sisson

JS/LP

cc: S. Berry
APDFS

	<u>FMSI NO.</u>
10/AT/2	774A
14/BB/1	776
39/BB/1	10,011
12/CI/2	
5V/DG/2	
17/FD/1	
25/FD/1	749A
2/FS/1	
6/FS/2	
10/FS/1	9032
10/FS/2	9032A
14/FS/1	784
1/GT/1	771
1/GT/7	
52/HA/3	
3/IZ/1	
2/LK/1	
9/LK/1	8038
9/LK/2	
4/NN/1	
8/NN/4	
3/OP/2	750A
3/OP/6	750C
5/OP/1	8002
8/OP/1	659
2/OV/5	
3/PT/2	
1/PO/1	773
34/RN/2	

	<u>FMSI NO.</u>
40/RN/1	
40/RN/2	
43/RN/1	
12/ST/1	657
10/TR/3	
8/TY/1	785
8/TY/7	
8/TY/TR	
32241X	
32330X	
32390C	
381002	
381003	
381004	
48405	
48407	
48425	
48441	
48445	
48454	
48455	
48461	
48463	
48464	
48589	
48592	
48594A	
48598	

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

September 23, 1985

Mr. Joe Sisson
944 Slyssum Road
Carlsbad, CA 92008

Dear Joe:

This is in reply to your letter of September 17, 1985.

I have posted FMSI interchange to the attached sheet. I have interchange with the British Friction Materials Council (BFMC) Numbers shown. The BFMC Numbers are the 10/AT/2 to 8/TY/7R. However, I have not been able to get any prints from the British Council in over a year. If you could get me prints through Ferodo who I believe is a member of the BFMC and some basic application data, I would make FMSI assignments.

I have no cross-over to the other numbers. If I could get samples and/or prints with application data, I would make FMSI assignments.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

10/AT/2
14/BB/1
39/BB/1
12/CI/2
5V/DG/2
17/FD/1
25/FD/1
2/FS/1
6/FS/2
10/FS/1
10/FS/2
14/FS/1
1/GT/1
1/GT/7
52/HA/3
3/IZ/1
2/LK/1
9/LK/1
9/LK/2
4/NN/1
8/NN/4
3/OP/2
3/OP/6
5/OP/1
8/OP/1
2/OV/5
3/PJ/2
1/PO/1
34/RN/2

40/RN/1
40/RN/2
43/RN/1
12/ST/1
10/TR/3
8/TY/1
8/TY/7
8/TY/TR

32241X
32330X
32390C
381002
381003
381004
48405
48407
48425
48441
48445
48454
48455
48461
48463
48464
48589
48592
48594A
48598

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

August 14, 1985

Ms. Rita M. Grisham
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

RECEIVED

AUG 1 1985

RITA M. GRISHAM

Dear Rita:

In a recent mailing, I recieved a "Directors' Ballot" with your signature. This ballot was originally mailed to Rob Nelson, for his consideration.

I understand that this may be confusing, but Rob continues as the Director. He was elected as a Director in June 1984 and will continue through his term till June 1986 (unless he resigns in the interim).

Per Mr. Armer's letter of April 19, 1985, you were appointed the Nuturn Delegate and will vote on all items submitted to the Membership.

As there are 22 Active Members (U.S. Members) and only 7 Directors on the Board, a Board position does not go with each Membership. The Directors are elected at the June Membership Meeting.

By copy of this letter to Rob Nelson, I'm asking that he vote on all ballots submitted for the Directors' votes. Those ballots will continue to be mailed to Rob for the remainder of his term as a Director.

Many thanks.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

Copy: Rob Nelson

Agree

So sorry Ed - I understood the situation to be exactly as you describe. I just "blindly" signed what Rob sent me without thinking that it was for a Director. Proceed as you outline.

DIRECTORS'

BALLOT

Friction Materials Standards Institute
East 210 Route 4
Paramus, NJ 07652

Gentlemen:

My ballot on the name change on the Institute's records of Brassbestos
Manufacturing Corporation to BMC Corporation is:

☒
Approve

☐
Do Not Approve

By

Company

Date

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

August 14, 1985

Ms. Rita M. Grisham
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Dear Rita:

In a recent mailing, I recieved a "Directors' Ballot" with your signature. This ballot was originally mailed to Rob Nelson, for his consideration.

I understand that this may be confusing, but Rob continues as the Director. He was elected as a Director in June 1984 and will continue through his term till June 1986 (unless he resigns in the interim).

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By copy of this letter to Rob Nelson, I'm asking that he vote on all ballots submitted for the Directors' votes. Those ballots will continue to be mailed to Rob for the remainder of his term as a Director.

Many thanks.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

Copy: Rob Nelson

DIRECTORS'

BALLOT

Friction Materials Standards Institute
East 210 Route 4
Paramus, NJ 07652

Gentlemen:

My ballot on the name change on the Institute's records of Brassbestos
Manufacturing Corporation to BMC Corporation is:

☒
Approve

☐
Do Not Approve

By

Company

Date

B. Gresham

Deitman

8/8/85

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

June 3, 1985

Mr. Ron Bracali
Tweddle Litho Company
24000 Harper Avenue
St. Clair Shores, MI 48080

Dear Ron:

This letter calls for shipping of the remaining 1985 Supplements on hand at Tweddle. My records indicate that you have two cartons of 380 each and one carton of 115 copies (for total of 875 copies). Please make the following shipments:

760 total (2 cartons of 380 each) to:

Nuturn Corporation
725 Allens Chapel Road
Smithville, TN 37166

Attention of Terry McKenzie

Mark both cartons Purchase Order 20873

Ship by United Parcel Service

115 copies (1 carton) to:

✓ Friction Materials Standards Institute
East 210 Route 4
Paramus, NJ 07652

Rec'd 6/11

Ship by United Parcel Service

When you have made the Nuturn shipment, please call giving me shipping date and UPS charges. Thanks.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

③

FMSI 14081

INVOICE

FRICITION MATERIALS STANDARDS INSTITUTE

8-318 ROUTE 4 • PARAMUS, NEW JERSEY 07652 • PHONE (201) 848-0440

SOLD TO

Metum Corporation
725 Allens Chapel Road
Smithville, TN 37166

SHIPPED TO

Same

Attn: Terry McKeenie

DATE	DATE SHIPPED	SHIPMENT VIA	YOUR ORDER NO.	F.O.B.	TERMS	INVOICE NO.	
06-06-85	06-06-85	United Parcel	PD 20075	Detroit, MI	Net	004630	
QUANTITY	DESCRIPTION					PRICE	AMOUNT
760	1985 Supplement to 1984 Automotive Data Book					\$24.00/W	\$182.44
	UPS Charges						23.08
	Total:						\$205.52
	Shipment made in two cartons, each 380 copies. Purchase Order placed in by Mr. Terry McKeenie on 6/3/85.						

B

B

Item # NV-R75 ©Wheeler Group Inc.

THANK YOU

FMSI 14082

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

May 29, 1985

Mr. Robert H. Nelson
Nuturn Corporation
725 Allens Chapel Road
Smithville, TN 37166

Dear Rob:

Based on our conversation, I will have your two Committee reports (Membership Committee, Public Relations Committee) put on stencils for distribution at the June Meeting.

I understand, of course, that Rita Grisham is the Delegate and you are the Alternate. There would be no problem if Rita reads your two Committee reports at the Membership Meeting. As she is the Delegate, she, of course, would vote on all ballots at the Membership Meetings.

My problem is your position as a Director of the Institute. There is no proxy or stand-in for a Director, and if you cannot attend the Board of Directors Meetings, Ms. Grisham cannot stand-in for you. As you are aware, Directors are elected by the Membership and the Director position does not follow a company.

I am concerned as to whether I may run into the quorum debacle I hit last year in LaCosta. I've enclosed copies of the first pages of the two Directors' Meetings last June to emphasize the quorum problem. If you are unable to attend, with the existing one vacancy on the Board, we could have quorum trouble again if two other Directors give last minute cancellations as happened last year.

Also, your term as a Director runs to June 1986. If you will not be able to continue as a Director, it would be best if you could advise the current Board as soon as is reasonable.

I hope you can reconsider and plan to attend the Board of Directors Meetings scheduled for June 18 and 19.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/dr
Enc.

FMSI 14083



Nut

April 19, 1985

FMSI
Bergen Mall Office Center
East 210 Route #4
Paramus, New Jersey 07652

Dear Mr. Drislane:

The Nuturn Corporation would like to modify its official member representative position with the F.M.S.I. whereby Ms Rita Grisham, Vice-President Personnel becomes our official voting member and Mr. Rob Nelson, Sales Marketing Manager Automotive Products and Mr. Don Loftis, Product Manager Heavy Duty Products become non-voting representatives from our two operating divisions.

Please implement this change as soon as possible. Below are the official mailing addresses for the three representatives. Please contact me if any further clarification is required.

Thank you for your cooperation.

Regards,

A handwritten signature in cursive script, appearing to read "R.L. Armer".

R.L. Armer
Vice President & General Manager
Automotive Products

RLA/klw

Ms Rita Grisham
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Mr. Rob Nelson
Nuturn Corporation
725 Allens Chapel Road
Smithville, TN 37166

Mr. Don Loftis
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211



February 11, 1985

Mr. Ed Drislane
Executive Director
Friction Materials Standards Institute, Inc.
Bergen Mall Office Center
E. 210, Route #4
Paramus, N. J. 07652

Dear Mr. Drislane,

I certainly appreciate your sending us the statistical information compiled by Marshall Granger & Company over the past several years.

It would be a great help to us if we were able to obtain a list of all companies that reported during the years of 1982 and 1983.

I will thank you ahead of time for your help in obtaining this valuable information.

Sincerely,

Dennis E. Long
Marketing Manager

DEL/bc

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

February 15, 1985

Mr. Dennis E. Long
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Dear Dennis:

Per your letter of February 11, 1985, I am enclosing copies of our reports on the statistical program. The Member companies participating are shown for the calendar years 1982 and 1983.

I trust this will help. Mr. Rob Nelson was sent the original reports for those periods.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER
E. 210 ROUTE 4
PARAMUS, N. J. 07652

January 17, 1985

Mr. Dennis E. Long
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Dear Mr. Long:

Based on a phone conversation with Ms. Crabtree, I am sending you the bulletin on our historical sales program - the quarterly sales statistics program on friction materials. This had formerly been sent to Mr. Rob Nelson.

I have asked the Accountants to send you the original form on which your data should be submitted. Would you please coordinate this so that all the Nuturn data (heavy and passenger car) is reported on one form to the Accountants.

Rob would have received the original BULLETIN NO. 814 and the Form from the Accountants, but it is my understanding that you will now be handling this. Thank you for your participation in this program.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

BRENDA CRABTREE



November 1, 1984

Mr. Ed Drislane
Friction Materials Standards Institute
E-210 Route 4
Paramus, NJ 07652

RE: Address Change

Dear Ed,

Effective Monday, November 5th my new location and job title
are as shown below:

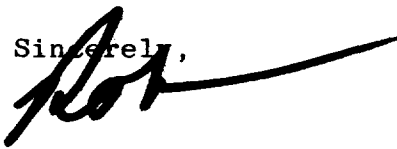
Robert H. Nelson
Sales & Marketing Manager
Passenger Car Products Group
725 Allens Chapel Road
Smithville, Tennessee 37166

615-597-6700

Please make the address change as soon as possible on your
mailings. Don Loftis who is the Product Manager of friction
in our Heavy Duty Products Group will remain as the alternate.

Enjoyed our recent Regulatory Committee meeting New York City.

Sincerely,


Robert H. Nelson
Sales & Marketing Manager

Enclosure

RHN/bc

cc: D. Loftis



MANAGEMENT BULLETIN

September 26, 1984

TO: ALL H.D.P.G. EMPLOYEES

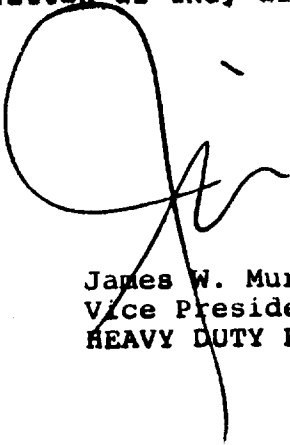
It is with mixed sorrow and pleasure that I announce that ROB NELSON is leaving the Heavy Duty Products Group to assume the position of MARKETING AND SALES MANAGER, Passenger Car Products Group. The pleasure comes from seeing Rob's professionalism rewarded by continuing advancement. The sorrow, obviously, comes from our Group's loss. Rob's contribution over four years, both personally and professionally, will be sorely missed and not forgotten. I know all of you join me in wishing our friend every success with our sister business Group.

Coupled with this announcement, I am very happy to be able to announce two more advancements.

DENNY LONG will assume the position of MANAGER OF MARKETING AND ORIGINAL EQUIPMENT SALES for Heavy Duty. Denny has been with Nuturn for over eight years, holding a variety of Sales Management and Operational positions. Denny's diversified background will bring a unique focus to this critical position.

GEORGE HOFMAN will relinquish his O.E. responsibilities, but will assume all Aftermarket Sales responsibilities in the newly created position of NATIONAL SALES MANAGER for Heavy Duty. George has been with Nuturn three years in various Sales Management positions.

I am sure all of you will not only congratulate Denny and George, but will extend your full cooperation as they assume these new responsibilities for our Group.



James W. Murray
Vice President & General Manager
HEAVY DUTY PRODUCTS GROUP

JWM/dh

NUTURN

TELEPHONE (201) 845-0440

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

November 7, 1984

Mr. Robert H. Nelson
Nuturn Corporation
725 Allens Chapel Road
Smithville, TN 37166

Dear Rob:

I received your letter on change of address and your new responsibilities. Congratulations.

But that is not the reason I'm writing. I'm following up on certain FMSI jobs that were sent to you up in Nashville.

MEMBERSHIP COMMITTEE BALLOT

I'm enclosing another ballot for the Membership applications of R & D Friction, Inc., of Canada and Grupo Industrial of Mexico. Also included was the original memo sent to you at Nashville. I'd appreciate return of the ballot so that the application can be further processed.

PUBLIC RELATIONS RELEASE

I'm enclosing another copy of my letter to you on the PR release we were to make on the election of Officers. If you need another glossy print or whatnot, please advise. I'd very much like to get this release to the media.

Thank you for your efforts on behalf of FMSI.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

FMSI 14090



August 8, 1984
PE84 - 147

Mr. E. W. Drislane
Executive Director
Friction Material Standards Institute, Inc.
East 210, Route #4
Paramus, New Jersey 07652

Dear Ed:

The British Friction Materials Council drawing #8/AT/1 corresponds to the sample facing that I have in hand (with the exception of the thickness, since my sample has been used).

If you can define the applications for the facing then, as you have recommended, we would like to have a FMSI number assigned to this item.

(1,011)

Sincerely,

Frank C. Skelton

Frank C. Skelton

FCS/klw

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

August 27, 1984

Mr. F. C. Skelton
Nuturn Corporation
Airport Lane
Smithville, TN 37166

Dear Frank:

Per recent correspondence - latest your of August 8, 1984 - we will be assigning FMSI 11,011 to the clutch facing corresponding to British Council 8/AT/1.

We do not have precise assignment information. We will be listing it as going on certain models of the Iveco Truck line. This release will be shown in the next FMSI DATA BOOK BULLETIN.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

10" OD - 6 1/2 ID

18 B 8 1/2
9 OD PCD
7 1/2 ID PCD

11 OD - 6 3/4 ID

24/FD/1
8/AT/1

40 D GAP

~~11 1/2 8~~

9.87 OD PCD

7.625 ID PCD

MAGIUS, IVECO !

F, SKELTON 7/10/84

10 - 6 1/2

(254 - 165)

11 - 6 3/4

(280 - 170)

8/AT/1

~~22/BD/1~~

24/FD/1

13/MB

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

July 31, 1984

Mr. F. C. Skelton
Nuturn Corporation
Airport Lane
Smithville, TN 37166

Dear Frank:

On July 12 I wrote you on a clutch facing for the Iveco or Magirus Deutz. This was an 11" x 6-3/4" facing.

In that letter I indicated that I had another British Council print but that I was looking for clarification. I have now received the clarification and am sending it along to you. It is their number 8/AT/1. It is apparently widely used in Europe. It fits the dimensions that you gave me on the phone.

If you could tell me that the print enclosed seems to fit, I would release an FMSI Number for Iveco, certain models. Please advise.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

FMSI 14094

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER
E. 210 ROUTE 4
PARAMUS, N. J. 07652

July 12, 1984

Mr. P. N. Briggs
British Friction Materials Council
c/o Baker, Rooke
99, Aldwych
London, WC2B 4JY
England

Dear Mr. Briggs:

I have enclosed a copy of British Council clutch facing print
8/AT/1.

We cannot make out the two dimensions circled in red pencil. One
is the outer P.C. Diameter and the other is the thickness which we
believe is 9/64" (.140").

Could you verify the correct dimensions for this print or send us
a better copy of 8/AT/1.

Thank you.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

July 12, 1984

Mr. Frank Skelton
Nuturn Corporation
Airport Lane
Smithville, TN 37166

Dear Frank:

I went over the two clutch facing sizes you called on the other day, with application for either Iveco or Magirus Deutz (or both?). Sizes were:

10.00 OD x 6.50 ID 18 BSTg Drill, 9.00 O PCD, 7.50 I PCD

11.00 OD x 6.75 ID 40 DGAP Drill, 9.87 O PCD, 7.62 I PCD

We do not have any FMSI assignments for these specifications. The only thing I have that is close is a British Council drawing for a Ford Truck, BFMC Drawing 24/FD/1. I've enclosed a copy. I'm looking for clarification on another British Council print but I cannot read certain dimensions.

I have nothing on the 10 x 6-1/2 size.

If this 24/FD/1 fits the dimensions, do you know the thickness now? I'm sorry on these but I have very little real information on the foreign jobs unless the dimensions fit a print I have on hand.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

MATHEWS, OSBORNE, McNATT, GOBELMAN & COBB

A PARTNERSHIP INCLUDING PROFESSIONAL ASSOCIATIONS

JOHN M. McNATT, JR., P.A.
ROBERT C. GOBELMAN, P.A.
JAMES E. COBB, P.A.
RONALD T. BUCKINGHAM, P.A.
RONALD L. PALMER, P.A.
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JERRY J. WAXMAN

JOHN E. MATHEWS, JR.
RETIRED
H. P. OSBORNE, JR.
OF COUNSEL
MARION R. SHEPARD
(1920-1981)

1500 AMERICAN HERITAGE LIFE BUILDING
JACKSONVILLE, FLORIDA 32202
(904) 354-0624

August 10, 1983

Mr. Edward Drislane
Friction Materials Standards Institute
E210
Route 4
Paramus, New Jersey 07652

Re: Maremont adv. Kinsey
Our File Number: 1410-34

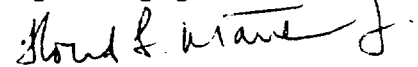
Dear Mr. Drislane:

This will confirm my telephone conversation with you of August 9, 1983 wherein I advised that I was representing the Maremont Corporation in the above-referenced lawsuit. I have spoken with Mr. Frank Skelton who is currently employed with Nuturn Corporation and formerly Maremont Corporation with regard to your forwarding to me a copy of Bulletin No. 478 dated June 14, 1973. I would appreciate your forwarding that Bulletin to me at your earliest convenience.

Should you have any questions please do not hesitate to contact me.

Once again, thank you very much for your cooperation in this matter.

Very truly yours,



Floyd L. Matthews, Jr.

FLM:sm
cc: Mr. Frank Skelton

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

March 7, 1983

Mr. ~~T~~ Jim Roseman
Nuturn Corporation
1112 S. 25th Street
New Castle, IN 47362

Dear ~~T~~ Jim:

Per our conversation, I'm enclosing a copy of a British standard for brake lining rivets.

FMSI 1356 takes a K-8 rivet. FMSI 1357 takes a K rivet (I don't know the length). I don't know the rivet for the FMSI 1361.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

Noted

3-17-83

Mr. Ed Drislane,

At this time, I would like to thank you for the prints you sent us that we requested on 3-11-83. We did receive the following: 4647, 4646, 4640, 4639, 4597, 4596, 4645A, 4567, 1308A, 1308, 1307, 1290, 1278, 1245A, & 1245C. Plus 1279, which was sent to Rusty Lawson. Some of these prints have been updated and we had some difficulty in reworking drill tooling to the old ones, but luckily we found out before any large mistakes were made.

One print, however, was overlooked and at this time I would like to ask if you would send it please. 1276D. Thanks again for your cooperation on these prints and I hope to talk to you again in the near future.

Sent
3/21

Sincerely,
Timothy C. Roseman

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

May 10, 1983

Mr. Terry Sobo
Corley Printing Company
9804 Page Boulevard
St. Louis, MO 63132

Dear Terry:

Would you please ship 500 of the 1982 Automotive Data Books to
the following:

Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Attention: Mike Banasiak

Please make this shipment by United Parcel Service. When shipment
is complete, please advise us of shipment date and invoice us for
the UPS charges.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

P.O. 060850

(X)



PURCHASE ORDER

060850

- IMPORTANT -

THIS ORDER NUMBER MUST APPEAR
ON ALL PACKING SLIPS, INVOICES,
PACKAGES AND CORRESPONDENCE.
DUPLICATE INVOICES REQUIRED FOR
EACH SHIPMENT.

TO:

VENDOR NO.

Ed Drislane
Friction Materials Standards Institute, Inc.
Bergen Mall Office Center
E. 210 Route 4
Paramus, N. J. 07652

DATE: May 10, 1983

SHIP TO:		NUTURN CORPORATION HEAVY DUTY PRODUCTS DIVISION 570 METROPLEX DRIVE NASHVILLE, TENN. 37211		INVOICE TO:		NUTURN CORPORATION HEAVY DUTY PRODUCTS DIVISION P.O. BOX 618 ANTIOCH, TENN. 37013	
SHIP VIA: UPS				DELIVERY REQUIRED AT OUR PLANT: ASAP			
F.O.B.:							
TERMS:							
THE TERMS AND CONDITIONS APPEARING ON THE REVERSE SIDE ARE PART OF THIS ORDER.							
ITEM	QUANTITY	UNIT	DESCRIPTION	PRICE	UNIT		
1.	500	Ea.	FMSI 821 1982 Red Book	\$367.00	Lot		
			Confirming phone order w/Ed Drislane 5/10/83				

PLEASE ACKNOWLEDGE PRICE AND DELIVERY DATE. SIGN AND RETURN ACKNOWLEDGMENT COPY. NUTURN PART NUMBER MUST BE CLEARLY MARKED ON EACH PACKING SLIP.



AUTHORIZED SIGNATURE

NC-3608

VENDOR

NUTURN CORPORATION

FMSI 14101

INVOICE

FRICITION MATERIALS STANDARDS INSTITUTE

E-210 ROUTE 4 • PARAMUS, NEW JERSEY 07652 • PHONE (201) 848-0440

SOLD TO

Naturn Corporation
Heavy Duty Products Division
P.O. Box 618
Antioch, TN 37013

SHIPPED TO

Naturn Corporation
570 Metroplex Drive
Nashville, TN 37211
Attention: Mike Damsiak

DATE	DATE SHIPPED	SHIPPED VIA	YOUR ORDER NO.	F.O.B.	TERMS	INVOICE NO.	
05-19-83	05-12-83	United Parcel	060050	St. Louis, MO	Net	004179	
QUANTITY	DESCRIPTION					PRICE	AMOUNT
500	1982 Automotive Data Books with 5 hole punch					.734	\$367.00
	UPS Charges from St. Louis						49.37
	Total						\$416.37

Item # NV-R75 ©Wheeler Group Inc.

THANK YOU

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS N. J. 07652

February 25, 1983

Mr. Jim Roseman
Nuturn Corporation
1112 S. 25th Street
New Castle, IN 47362

Dear Jim:

This is to reply on your recent note on the Mercedes blocks. I've marked the two prints in red pencil to note they are FMSI 1301 and 1302 respectively.

My assignments were as follows:

FMSI 1301	17dd	-	5-1/2 x 19/32 x 7-3/4 long	(430 x 140)
FMSI 1302	17-5/16	dd-6-3/4 x 19/32 x 8 long	(440 x 170)	

These assignments were made before we started using metrics. Had we made the assignments today, they would have been shown first in metrics and then rounded down closer on the decimals.

I've enclosed prints from which we made these assignments. Both prints are not scaled, and one was made from a sample.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

Here are the two 12, prints I wanted you want
on 2-22-83 Both are M.B. brace blocks. I would appreciate
any help you could give me in identifying these blocks. I
could print if you have them. If you have any questions,
feel free to call me.

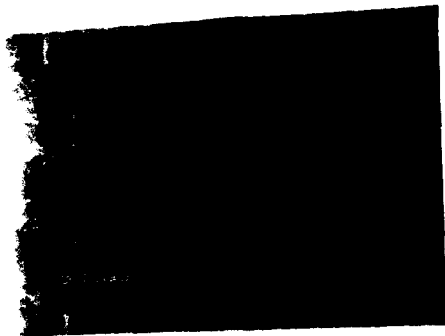
Sincerely

Jim Roseman

Nature Corp.
1112 S. 25th St.
New Castle, In. 47362

Ph 1-317-521-3882

Thanks.
again
Jim





April 19, 1983

Friction Materials
Standards Institute, Inc.
Bergen Mall Office Center
E 210 Route 4
Paramus, NJ 07652

Gentlemen:

Please accept this as official notice that the address
for Ms. Rita M. Grisham has changed from:

Nuturn Corporation
311 Plus Park Blvd.
Nashville, TN 37217

to:

Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Thank you for your assistance in this matter.

Sincerely,

A handwritten signature in cursive script, reading "Gina M. Beech".

Gina M. Beech
Secretary to
Rita M. Grisham

/gmb



Nuturn Corporate office is moving effective
January 17, 1983, from:

311 Plus Park Boulevard
Nashville, TN 37217

to:

570 Metroplex Drive
Nashville, TN 37211

The new telephone number is: (615) 834-3800

The telex number remains the same: 555128

Personnel affected are:

Colin J. Sinclair - President and CEO
Larry Battle - Vice President - Finance
Rita M. Grisham - Director of Personnel
Mike T. McDonough - Sales & Marketing Mgr. - Pass. Car
Fred C. Thompson - Credit Manager
Donna E. Drake - Personnel Assistant
Bette M. Missimer - Accountant
Gina M. Beech - Executive Secretary
Sammie K. Barrett - Sr. Secretary

Sincerely,

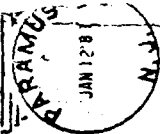
A handwritten signature in cursive script that reads "R. M. Grisham".

Rita M. Grisham
Director of Personnel

RMG/gmb

NUTURN

U.S. POSTAL SERVICE	
WRAPPER FOUND WITHOUT CONTENTS	
FROM: POST OFFICE, STATE AND ZIP CODE (This space is provided for use of rubber stamp return address) LOOSE-IN-THE-MAILS SECTION MEMPHIS BULK MAIL CENTER 1921 ELVIS PRESLEY BOULEVARD MEMPHIS, TN 38136-9998	POSTMASTER: (Complete items below and address to mailer) ADDRESSED TO: (Name, Street, Apt./Suite No., City, State and ZIP Code) <i>Nuturn Corp.</i> <i>570 Metroplex Drive</i> <i>Nashville, TN 37211</i> <i>Attn: Diane Hill</i>
TO: (MAILER) <i>Materials Standards Inst.</i> <i>Bergen Mall office etc.</i> <i>E. 210 Route 4</i> <i>Paramus, N.J. 07652</i>	TYPE ☐ INSURED NO. _____ ☒ ORDINARY ☐ C.O.D. NO. _____ POST MARK DATE <i>1-12-83</i>
DATE FOUND JAN 23 1983	FOUND AT MEMPHIS BULK MAIL CENTER BY MAIL PROCESSING
DEAR CUSTOMER: The enclosed address portion of wrapper of a parcel mailed by you is believed to have become separated from the contents during course of its handling in the mails. If the contents have not already been satisfactorily accounted for and you wish that a search be made for the articles, please complete the bottom of this form and return it to this office together with the wrapper. Do not detach this letter. An accurate and detailed description of each item is essential, such as brand or make of article, model number, color, size, kind of material and quantity. If you are able to furnish illustrations or pictures, they would be most helpful.	
DATE JAN 23 1983	SIGNATURE OF POSTMASTER <i>Curtis Byrd</i> CURTIS BYRD, DIRECTOR, MAIL PROCESSING
TO BE COMPLETED BY MAILER	
QUANTITY	TYPE OF MAIL (Ordinary, insured, C.O.D. etc.) AND DESCRIPTION (Brand or make, color, size, kind of material, model No. etc.)
	This is the outside wrapper for a package that contained about 300 copies of a technical bulletin--see DATA BOOK BULLETIN NO. 323, copy attached. Inside this main wrapper the bulletins were enclosed in about four 10 x 13 brown manila envelopes, each envelope sealed and addressed just in case what happened did happen. These four inside manila envelopes were addressed to: Nuturn Corporation, 570 Metroplex Drive, Nashville, TN 37211, Attention: Diane Hill.
(Please continue on reverse side if more space is needed)	
IF FOUND ARTICLES SHOULD BE (Check one) ☒ DELIVERED TO ADDRESSEE ☐ RETURNED TO MAILER	
DATE JAN 26 1983	SIGNATURE OF MAILER <i>[Signature]</i>
TO BE COMPLETED BY POST OFFICE	
RESULTS OF SEARCH (Check one) ☐ ARTICLES DESCRIBED ABOVE WERE FOUND AND SENT ON TO ADDRESSEE ☐ ARTICLES DESCRIBED ABOVE ARE RETURNED HEREWITH ☐ ARTICLES NOT FOUND (If sent as insured or C.O.D. mail you may present this report to your local post office and request that claim for indemnity be filed. Wrapper will be retained here.)	
DATE	SIGNATURE



**FRICION-MATERIALS
STANDARDS INSTITUTE**

EAST 210 ROUTE 4
PARAMUS, NEW JERSEY 07652

To:

Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Attn.: Diane Hill

JAN 28 1983

U.S. POSTAL SERVICE
WRAPPER FOUND WITHOUT CONTENTS

FROM: POST OFFICE, STATE AND ZIP CODE (This space is provided for use of rubber stamp return address) LOOSE-IN-THE-MAILS SECTION MEMPHIS BULK MAIL CENTER 1921 ELVIS PRESLEY BOULEVARD MEMPHIS, TN 38136-9998		POSTMASTER: (Complete items below and address to mailer) ADDRESSED TO: (Name, Street, Apt./Suite No., City, State and ZIP Code) <i>Nuturn Corp.</i> <i>570 Metroplex Drive</i> <i>Nashville, TN 37211</i> <i>Attn: Diane Hill</i>
TO: (MAILER) <i>Materials Standards Inst.</i> <i>Benson Mall office Ctr.</i> <i>E. 210 Route 4</i> <i>Paramus, N. J. 07652</i>	TYPE ☐ INSURED NO. _____ ☒ ORDINARY ☐ C.O.D. NO. _____	
DATE FOUND JAN 23 1983		FOUND AT MEMPHIS BULK MAIL CENTER
DEAR CUSTOMER: The enclosed address portion of wrapper of a parcel mailed by you is believed to have become separated from the contents during course of its handling in the mails. If the contents have not already been satisfactorily accounted for and you wish that a search be made for the articles, please complete the bottom of this form and return it to this office together with the wrapper. Do not detach this letter. An accurate and detailed description of each item is essential, such as brand or make of article, model number, color, size, kind of material and quantity. If you are able to furnish illustrations or pictures, they would be most helpful.		POST MARK DATE 1-12-83
DATE JAN 23 1983		SIGNATURE OF POSTMASTER <i>Curtis Byrd</i> CURTIS BYRD, DIRECTOR, MAIL PROCESSING
TO BE COMPLETED BY MAILER		PLEASE REPLY WITHIN 7 DAYS
QUANTITY	TYPE OF MAIL (Ordinary, insured, C.O.D. etc.) AND DESCRIPTION (Brand or make, color, size, kind of material, model No. etc.) This is the outside wrapper for a package that contained about 300 copies of a technical bulletin--see DATA BOOK BULLETIN NO. 323, copy attached. Inside this main wrapper the bulletins were enclosed in about four 10 x 13 brown manila envelopes, each envelope sealed and addressed just in case what happened did happen. These four inside manila envelopes were addressed to: Nuturn Corporation, 570 Metroplex Drive, Nashville, TN 37211. <i>NOT FOUND LOOSE IN THE MAIL</i> BULK MAIL CENTER MEMPHIS, TN 38136-9998	
(Please continue on reverse side if more space is needed)		
IF FOUND ARTICLES SHOULD BE (Check one) ☒ DELIVERED TO ADDRESSEE ☐ RETURNED TO MAILER		
DATE JAN 26 1983	SIGNATURE OF MAILER <i>[Signature]</i>	
TO BE COMPLETED BY POST OFFICE		
RESULTS OF SEARCH (Check one) ☐ ARTICLES DESCRIBED ABOVE WERE FOUND AND SENT ON TO ADDRESSEE ☐ ARTICLES DESCRIBED ABOVE ARE RETURNED HEREWITH ☒ ARTICLES NOT FOUND (If sent as insured or C.O.D. mail you may present this report to your local post office and request that claim for indemnity be filed. Wrapper will be retained here.)		
DATE FEB 11 1983	SIGNATURE <i>[Signature]</i>	

NUTTEN CORP

Woreh Basha Div

1112 South 25th St

New Castle, IN 47362

TIM ROSEMAN

R.W. LAWSON

NUT-12N

TELEPHONE (201) 845-0440

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

November 10, 1982

Mr. Ed Koss
Route 13 Box 55
Cookeville, TN 38501

Dear Ed:

This is in reply to your letter of November 3, 1982.

I don't really have any firm leads, because I usually don't get that type of information. I have enclosed a copy of the Institute's "Directory" which might at least give you some handle on the names, addresses and phones of people in the friction materials business.

I do know that there have been recent changes in marketing and engineering at Certified Brakes in Canada. Bob Anderson has left Certified in Sales. Recently, Mr. Norm Abbott came in as Chief Engineer. Also, Mr. Dave Cunningham will be retiring from his Sales Position at Raymark (Formerly Raybestos). And I know that there have been changes at the top at Virginia Friction Products.

However, while I would like to help, and if anything that was positive should come along I would let you know, I ask that my name not be used as the entree to any job application. I would be happy to provide a reference if you would send along a resume of your background.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

FMSI 14111

Route 13 Box 55
Cookeville, TN 38501
Ph. 615- 537-3153

November 3, 1982

Dear Ed,

A year-and-a-half ago I joined Nuturn Corp. with the promise of their business expanding into the original equipment market. For a multitude of reasons (the economy, poor sales, and losses by the parent company being the major ones) they decided to concentrate on their strong business, the aftermarket, and forget the original equipment market. Consequently, my job became redundant.

In any event, I'm looking for another job. You are familiar, in general, with my background and I would appreciate any leads you may come across for a job in a related field.

I look foward to hearing from you.

Yours Truly,

Ed Koss

Ed Koss

FRICTION MATERIALS STANDARDS INSTITUTE, INC.
 BERGEN MALL OFFICE CENTER
 E. 210 ROUTE 4
 PARAMUS, N. J. 07652

October 13, 1982

Mr. F. C. Skelton
 Nuturn Corporation
 Airport Lane
 Smithville, TN 37166

Dear Frank:

Enclosed is an MVMA spec sheet for the 1983 Chrysler Corporation K and "Super" K cars. They show an additional clutch facing over those I already have:

215 OD x 154 ID x 3.45 thick
 (8.46 x 6.06 x .136)

This is close to the FMSI 8042 I already have, but the ID differs. As they note "Ferodo, Nuturn, Luk" as manufacturer, could you check to see if you have a drilled facing drawing for this part. If you do I'd appreciate a print. Thanks for your help on these facing assignments.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
 Executive Director

EWD/e

83 Chrysler K Cars

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

October 8, 1982

Mr. Donald R. Loftis
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Dear Don:

After our phone conversation today, I remembered where I had done some work on those M.A.N. articulated buses.

I had received some information a few years back that American General was marketing them in the United States. We made a listing under AM General (page 3 in the front of our 1982 Data Book) as follows:

1980, Transit Bus (MAN Axles)	
Steering and Trail Axle:	FMSI 4671
Drive Axle:	4672

FMSI 4671 is a block with a 16-1/8 drum diameter, 6-13/32 wide, while 4672 is a block with the same drum diameter, 8-3/4 wide. This may be what you were looking for, but I have no number cross-over.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e



August 6, 1982
PE82-160

Friction Material Standards Institute
Bergen Mall Office Center
East 210, Route 4
Paramus, New Jersey 07652

Attention: E. W. Drislane
Executive Director

Dear Ed:

Enclosed for your information is a print of the alternate facing for Horizon/TC3 vehicles, part number A319066500 as listed in the MVMA specifications. My friends at Ferodo had to get this from LUK in Germany.

Although this part number appears in the MVMA specification - sheet, my understanding is that it was never actually used. Note that the MVMA data shows 16 rivets while the previous Ferodo print (part number 57740) specified 18 rivets. This could cause some confusion and I have no explanation.

Best regards,


F. C. Skelton

jk

Enclosure

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line PLYMOUTH HORIZON/TC3
 Model Year 1982 Issued 6-19-81 Revised (*)

Engine Description/Carb.
 Engine Code

1.7 L (104.7 in.³) 2 bbl.
 Miser

Drive Units - Clutch (Manual Transmission)

Make & type		Auto Products, Dry Disc	Luk, Dry Disc
Type pressure plate springs		Belleville	
Total spring load—N (lb.)		3550—4800 (798—1079)	4200—5950 (944—1338)
No. of clutch driven discs		One	
Clutch facing	Material	Woven Asbestos	
	Manufacturer	Ferodo	Ferodo Raybestos
	Part number	57740	A319066500 A319069400
	Rivets/plate	18	16
	Rivet size	7.54 (0.297)	9.5 (0.374)
	Outside & inside dia.	200 x 135.275 (7.87 x 5.36)	200 x 134 (7.87 x 5.27)
	Total eff. area—cm ² (in. ²)	336.2 (52.11)	346 (53.67)
	Thickness	3.24 (0.127)	3.25 (0.128)
Engagement cushion method		Wave Spring Segments	
Release bearing	Type & method of lubrication	Angular Contact Ball Bearing Lubed with Grease	
Torsional damping	Method: springs, friction material	Coil Springs with Fiber Friction Washers	

Drive Units - Transmissions

Manual 3-speed (std., opt., n.a.)	N.A.
Manual 4-speed (std., opt., n.a.)	Standard
Manual 5-speed (std., opt., n.a.)	N.A.
Manual overdrive (std., opt., n.a.)	N.A.
Automatic (std., opt., n.a.)	Optional
Automatic overdrive (std., opt., n.a.)	N.A.

Drive Units - Manual Transmission

Number of forward speeds		4
Transmission ratios	In first	3.29
	In second	1.89
	In third	1.21
	In fourth	0.88
	In fifth	--
	In overdrive	--
	In reverse	3.14
Synchronous meshing, specify gears		1,2,3,4
Shift lever location		Floor
Lubricant	Capacity—L (qt.)	1.25 (2.6)
	Type recommended	Mopar Dexron 11 Automatic Transmission Fluid
	SAE viscosity number	Summer --
		Winter --
		Extreme cold --

MAILING LIST CHANGE

Member NUTURN CORP

Date 7-13-82

This change effects the following lists:

General Bulletins - Active	☒	Foreign Shoe Bulletins	☐
General Bulletins - Regional	☐	Delegates & Alternates	☒
General Bulletins - Licensees	☐	Annual Fee Billing	☐
Data Book Bulletins	☒	Regular Billing	☐
Shoe Bulletins	☒		

Change List As Follows:

Remove Larry DeFrance from all Nuturn mailings. (No longer with Nuturn).

Replace him with Mr. Donald R. Loftis on all mailings where DeFrance was shown. Mr. Loftis is the new Alternate.

Source of Change: Rob Nasru, phone 7-13-82

	<u>Name</u>	<u>Date</u>
Requested by:	<u>ERD</u>	<u>7-13-82</u>
Rolodex Files (Both) Changed:	<u>ERD</u>	<u>7/14/82</u>
Matrix Copy Addressograph/Type Changed:	<u>ERD</u>	<u>7/14/82</u>
Address/Telephone Directory Changed:	<u>ERD</u>	<u>7/14/82</u>

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

June 2, 1982

Mr. F. C. Skelton
Nuturn Corporation
Airport Lane
Smithville, TN 37166

Dear Frank:

I wrote you on this last Fall, but I realize that may have been a fairly busy time for you. Not that it's less busy today, but I still need some help. It concerns the clutch facings on the 1982 Horizon/Omni cars, as shown by the copy of the MVMA Specification Sheets sent us by Chrysler Corporation. Both releases show Ferodo facings as follows:

200 OD	x	135.275 ID	x	3.24 t	(18 Rivets)
(7.87	x	5.33	x	.127)	
200 OD	x	134 ID	x	3.25 t	(16 Rivets)
(7.87	x	5.27	x	.128)	

Do you have facing drawings for these parts? If you do I'd very much appreciate copies. If there were any proprietary information on the drawings, that of course could be removed.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

October 23, 1981

Mr. Frank Skelton
Nuturn Corporation
Airport Lane
Smithville, TN 37166

Dear Frank:

This concerns two new clutch facings listed for the 1982 Horizon/Omni cars. These are shown on the copy of the NVMA Specification Sheets sent us by Chrysler Corporation. Both releases show a Ferodo facing. Perhaps you can help me on this. The facing sizes are:

200	x	135.275	x	3.24	18 Rivets
(7.87	x	5.33	x	.127)	

200	x	134	x	3.25	16 Rivets
(7.87	x	5.27	x	.128)	

I will be also asking others for help on these, but since they indicate Ferodo facings, I thought you may be able to help. Whatever you can do on these assignments would be most appreciated.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc

E. W. Drislane
Executive Director

FMSI 14119



AUTOMOTIVE PRODUCTS (U.S.A.) INC.

6515 Cobb Drive, Sterling Heights, Michigan 48077
Telephone (313) 978-8422 Telex: 023-1235

October 28, 1981

Mr. E. W. Drislane
Executive Director
Friction Materials Standards Institute, Inc.
Bergen Mall Office Center
E. 210 Route 4
Paramus, New Jersey 07652

Dear Ed:

I have received your October 23 letter requesting information on the 200mm "L" Car clutch facing.

I am afraid that we do not carry prints of the Ferodo facing, and I suggest that you request this directly from Nuturn in Tennessee, which is a wholly owned subsidiary of Ferodo. The address and phone number are given below.

311 Plus Park Boulevard
Nashville, Tennessee 37217
(615) 367-9900

It was good hearing from you and I wish I could be of more specific help. I have talked with Jack and Mary both, since their move to McQuay-Norris. I hope one of these days you and I will get a chance to sit down together again.

Sincerely,

A handwritten signature in cursive script, appearing to read 'T. E. Deane'.

T. E. Deane

TED/db

October 23, 1981

Mr. T. E. Deane
Automotive Products Limited USA
1861 Northwood Drive
Troy, MI 48084

Dear Ted:

This is the time of the year that I gather information on the new cars and new brake linings and clutch facings.

In reviewing the Horizon/Omni data for 1982, the MVMA Specifications indicate a new facing for the 1.7 liter Miser. (Actually they list two, one from Auto Products and the other from LUK).

A copy of the MVMA sheet for clutch facings is enclosed. The Auto Products facings is:

200	x	135.275	x	3.24	18 Rivets
(7.87	x	5.33	x	.127)	

Could you provide me with a print of this facing, or give me part number information which might permit me to get a print elsewhere. We're looking for facing dimensions and drilling only, and of course need no proprietary information.

Whatever you can do will be appreciated. Incidentally, I believe you know that Jack Kelly is now selling for McQuay-Norris out of St. Louis. He is in charge of aftermarket sales. Mary and he moved to St. Louis in late August.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc
Enc:

E. W. Drislane
Executive Director

FMSI 14121



May 24, 1982

Friction Materials Standards
Institute, Inc.
E-210 - Route 4
Paramus, New Jersey 07652

Dear Sirs:

As per FMSI Bulletin #317, dated April 16, 1982, please
send us the newly updated print of FMSI 7083B (Outer - RH)-
right and left hand prints.

We understand there is no charge for members.

Sincerely,

Judy Kimbrell
Judy Kimbrell
Nuturn Corporation
Airport Lane
Smithville, Tn 37166

Sent 5/27/82

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

May 27, 1982

Ms. Judy Kimbrell
Nuturn Corporation
Airport Lane
Smithville, TN 37166

Dear Ms. Kimbrell:

Enclosed are the following prints, per your letter of May 24, 1982:

FMSI 7083B - Inner
7083B - Outer (Left Hand)
7083B - Outer (Right Hand)

As regards the "No Charge" for Members, that is partly true and partly not true. When a new release is made, we ordinarily send one person at a Member Company one copy each of the new release. In this case, we send the new prints to Frank Skelton at your address. For additional prints, there is "No Charge" if the order involves from one to four prints. If the order is for five or more prints, there is a \$.75 charge per print. The enclosed are "No Charge" because they are for less than five prints.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

Nuturn

TELEPHONE (201) 845-0440

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

April 9, 1982

Mr. Robert H. Nelson
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Dear Rob:

One of the interesting parts of this job is the variety of work that I have. This includes editor, publisher, meeting organizer, report preparer, etc. And another is, of course, bill collector.

I've enclosed a copy of our Invoice No. 3861 with our fee billing for the second half of our fiscal year. This is the billing of January 1, 1982 for the six months from January 1 to June 30. I've also enclosed a copy of the Nuturn Statement on our books.

Whatever you can do to make payment on this would be appreciated. Many thanks.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

FMSI 14124

INVOICE

FRICITION MATERIALS STANDARDS INSTITUTE

E-210 ROUTE 4 • PARAMUS, NEW JERSEY 07652 • PHONE (201) 845-0440

SOLD TO

SHIPPED TO

Mr. Robert H. Nelson

Nuturn Corporation

311 Plus Park Blvd.

Suite 100

Nashville, TN 37217

DATE	DATE SHIPPED	SHIPPED VIA	YOUR ORDER NO.	F.O.B.	TERMS	INVOICE NO.	
1/1/82						003861	
QUANTITY	DESCRIPTION					PRICE	AMOUNT
	Annual Fee 1982-82 Fiscal Year						
	Full Year \$3,250.00						
	2nd Half billed at this time						\$1,625.00

Form NV-875 ©The Drawing Board Inc., Box 505 Dallas, Texas

THANK YOU

Nuturn - Nashville #4

Due 7/1, 7/1

1/2 yr. \$1,625

[illegible]

Nuturn

TELEPHONE (201) 845-0440

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

April 9, 1982

Mr. Robert H. Nelson
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Dear Rob:

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I've enclosed a copy of our Invoice No. 3861 with our fee billing for the second half of our fiscal year. This is the billing of January 1, 1982 for the six months from January 1 to June 30. I've also enclosed a copy of the Nuturn Statement on our books.

Whatever you can do to make payment on this would be appreciated. Many thanks.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

FMSI 14127

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

May 5, 1982

Mr. R. H. Nelson
Nuturn Corporation
570 Metroplex Blvd.
Nashville, TN 37211

Handwritten notes:
5/17 Reader - OK ERE
5/17 Matrix - OK ERE
5/17 Mailing List - OK ERE
5/17 Directory - OK ERE

Dear Rob:

I am having difficulty with mailing addresses for Nuturn employees. Would you please help me out? I will list the individuals with the addresses on our records and ask that someone indicate whether the address shown is correct, and if not, what the correct address is.

ADDRESS ON OUR RECORDS

CORRECT ADDRESS

Robert H. Nelson
Nuturn Corporation
570 Metroplex Blvd.
Nashville, TN 37211

Larry DeFrance
Nuturn Corporation
570 Metroplex Blvd.
Nashville, TN 37211

Mr. Ken Rhoad
Nuturn Corporation
P.O. Box 618
Antioch, TN 37013

Mr. Ken Rhoad
Nuturn Corporation
570 Metroplex Drive
Nashville, Tennessee 37211

Frank Skelton
Nuturn Corporation
Airport Lane
Smithville, TN 37166

David T. Rex
Nuturn Corporation
P.O. Box 618
Antioch, TN 37013

Mr. David Rex
Nuturn Corporation
570 Metroplex Drive
Nashville, Tennessee 37211

Dianne Hill
Nuturn Corporation
311 Plus Park Blvd. - Suite 100
Nashville, TN 37217

Mrs. Dianne Hill
Nuturn Corporation
570 Metroplex Drive
Nashville, Tennessee 37211

FOR NELSON

MAY 10 1982

Whatever you can give me on this will be appreciated.

Sincerely,



E. W. Drislane

EWD/e

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

May 5, 1982

Mr. R. H. Nelson
Nuturn Corporation
570 Metroplex Blvd.
Nashville, TN 37211

Dear Rob:

I am having difficulty with mailing addresses for Nuturn employees. Would you please help me out? I will list the individuals with the addresses on our records and ask that someone indicate whether the address shown is correct, and if not, what the correct address is.

ADDRESS ON OUR RECORDS

CORRECT ADDRESS

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Nuturn Corporation
570 Metroplex Blvd.
Nashville, TN 37211

Larry DeFrance
Nuturn Corporation
570 Metroplex Blvd.
Nashville, TN 37211

Mr. Ken Rhoad
Nuturn Corporation
P.O. Box 618
Antioch, TN 37013

Frank Skelton
Nuturn Corporation
Airport Lane
Smithville, TN 37166

David T. Rex
Nuturn Corporation
P.O. Box 618
Antioch, TN 37013

Dianne Hill
Nuturn Corporation
311 Plus Park Blvd. - Suite 100
Nashville, TN 37217

Whatever you can give me on this will be appreciated.

Sincerely,

EWD/e

E. W. Drislane

MAILING LIST CHANGE

Member Nutten

Date 4/8/82

This change effects the following lists:

General Bulletins - Active	☒	Foreign Shoe Bulletins	☐
General Bulletins - Regional	☐	Delegates & Alternates	☒ ✓
General Bulletins - Licensees	☐	Annual Fee Billing	☒ ✓
Data Book Bulletins	☒	Regular Billing	☒
Shoe Bulletins	☒		

Change List As Follows:

Address change:

Mr. Robert H. Nelson
570 Metroplex Drive
Nashville, TN 37211

Source of Change: Rob Nelson, Phone 4/8/82

	<u>Name</u>	<u>Date</u>
Requested by:	<u>CWS</u>	<u>4/8/82</u>
Rolodex Files (Both) Changed:	<u>ERL</u>	<u>5/10/82</u>
Addressograph Plate Changed:	<u>ERL</u>	<u>-</u>
Address/Telephone Directory Changed:	<u>ERL</u>	<u>5/10/82</u>

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

April 8, 1982

Mr. R. H. Nelson
Nuturn Corporation
570 Metroplex Drive
Nashville, TN 37211

Subject: Layout of new "1982 Automotive Data Book."

Per our conversation, the new "1982 Automotive Data Book" is now being typeset by the Printer. It is a combination of our red book, last published as the "1981 Automotive Data Book," and our blue book, last published as our "1980 Brake Shoe Identification Catalog."

The new book will have the following organization:

1. Alphabetical Section - about 60 pages - per our EXHIBIT 13.1 attached. I've also enclosed proof for the first 10 pages to give you an idea as to how it will look.
2. Emergency Brake Section - about 3 pages - same as in the "1981 Automotive Data Book."
3. Lining Numeric Section - about 20 pages - similar to the numeric section in the "1981 Automotive Data Book," but altered per our EXHIBIT 13.3 attached.
4. Clutch Facing alphabetical - about 4 pages - same as "1981 Automotive Data Book."
5. Clutch Facing numeric - about 5 pages - same as "1981 Automotive Data Book."
6. Clutch Facing Drilling Diagrams - 3 pages - same as "1981 Automotive Data Book."
7. Numerical Shoe Listing - 4 pages - Per our EXHIBIT 13.4
8. Shoe Illustrations - about 48 pages - Similar to those in the "1980 Brake Shoe Identification Catalog" but revised per our EXHIBITS 13.5.1 and 13.5.2.

I trust this illustrates the new catalog. I've enclosed another copy of our BULLETIN NO. 731 which solicited orders. We will need your order to give the printer paper information.

Sincerely,

E. W. Drislane
Executive Director

EWD/e

FMSI 14131

FRICTION CODES VERSUS BRAKE LINING QUALITY

Frank C. Skelton

Manager of Engineering, Brake Systems Division
Maremont Corporation

Reprinted July, 1973 from
Automotive Engineering, Vol. 81, No. 8 by

Society of Automotive Engineers Inc.,
Two Pennsylvania Plaza, New York, N.Y. 10001



REPRINT

FRICITION CODES VERSUS BRAKE LINING QUALITY

"There are a lot of friction materials on the market today. In the majority they are safe, reliable materials, if properly applied both by design for the intended application and by actual installation practice.

"From a total quality viewpoint, however, each material or combination of materials performs at different levels of competency. In this respect it is a mistake to judge the quality of a brake lining solely by its displayed edge code."

The term "quality" is used quite freely in our industry today. Quality is a word with a variety of meanings. As most frequently used, quality is a very vague expression which implies a general excellence, but is not specific enough for any technical classification.

Such usage of the term quality is common, but often leads to total confusion.

Here, we need first to look at the word quality in some of its more specific senses and second to select or isolate those definitions which apply to the subject of "Friction Codes Versus Lining Quality."

Some of the specific definitions of quality are¹:

- Quality is the degree to which a specific product satisfies the needs of a specific consumer.

- Quality is the degree to which a product is preferred over competitive products of equivalent grade.

- Quality can be the degree to which a class of product possesses potential satisfaction for the general public.

- Quality can be those distinguishing features of a product: appearance, performance, reliability, durability, and such.

- Quality is the degree to which a product conforms to a specification.

In the most strict sense, only the last definition of quality can be applied to the edge coding, per se, of friction material.

The immediate response to this statement should of course be: Why?

If a particular friction material product is edge coded "FF", doesn't this mean that it is a better quality material than a product edge coded

"FE" or "ED"?

For any reputable brake lining manufacturer the answer to this question is unequivocally: No!

To understand why the answer is no, requires a detailed evaluation of the edge coding specification, the test procedure whereby the numerical values for the friction coefficients are determined, a review of certain State brake lining statutes, and what in the opinion of brake engineers constitutes a quality lining.

Edge codes

From a specification viewpoint and disregarding any legal aspects, automotive friction material edge

¹Excerpted from "Quality Control Handbook, McGraw Hill Co.



codes are determined according to SAE Recommended Practice J866a—Friction Identification System for Brake Linings and Brake Blocks for Motor Vehicles.

The wording of the scope of this SAE Recommended Practice is precise:

“This SAE Recommended Practice is intended to provide a uniform means of identification which may be used to describe the initial friction characteristics of brake linings and brake blocks for use on motor vehicles. Note: It is emphasized that this Recommended Practice does not establish friction requirements for brake linings or brake blocks, nor does it designate other significant characteristics of brake linings or brake blocks which must also be considered in overall brake performance.”

The key phrases to be remembered from the scope section of the SAE J866a Recommended Practice are:
*Uniform means of identification . . .
 initial friction characteristics . . .
 does not establish friction requirements for brake linings . . . nor does it designate other significant characteristics of brake linings.*

Friction coefficients

The basis for determining the friction coefficients for brake linings and brake blocks are tests conducted in accordance with SAE Recommended Practice J661a — Brake Lining Quality Control Test Procedure.

The friction identification code consists of two alphabetical letters. The first letter represents the normal friction coefficient and the second letter represents the hot coefficient.

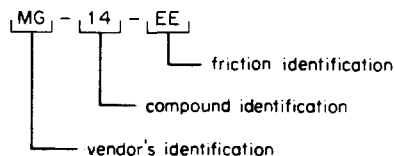
Legal requirements

Due to certain legal requirements, brake lining edge codes consist of three distinct parts:

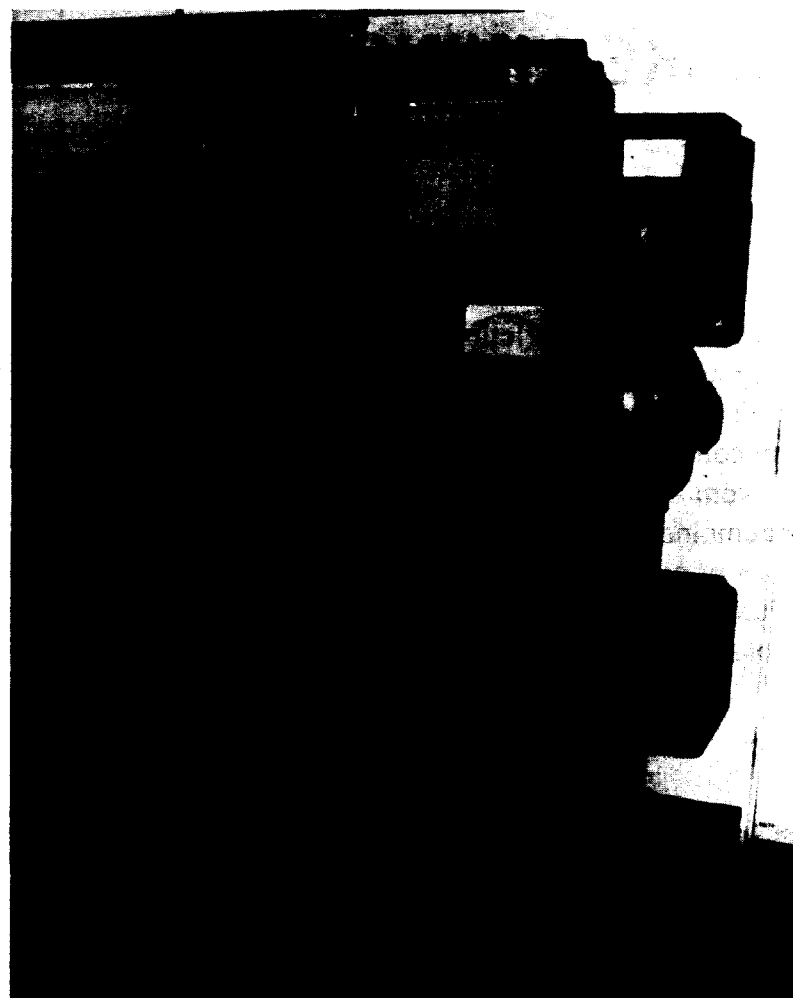
1. Vendor's identification.
2. Compound identification.
3. Friction identification.

Fig. 1 is a typical example. Of these three parts only the “friction identification” portion is required to be uniform. The “vendor” and “compound identification” parts can, and do, consist of names, acronyms, numbers, alpha-numeric combinations, and such.

The actual code letters reflecting the friction coefficients and their



1. Due to certain legal requirements, brake lining edge codes consist of three distinct parts: Vendor's identification, compound identification, and friction identification.



2. SAE Recommended Practice J661a is conducted on a friction materials test machine.

Frank C. Skelton . . .

. . . Manager of Engineering, Brake Systems Division, Maremont Corporation has been an SAE

Member since 1957. He attended the University of Dayton and is a registered Professional Engineer.

range of numerical values are:

Code Letter	Coefficient of Friction
C	Not over .15
D	Over .15 but not over .25
E	Over .25 but not over .35
F	Over .35 but not over .45
G	Over .45 but not over .55
H	Over .55
Z	Unclassified

Note that this classification method establishes very broad ranges for the friction coefficient.

The individual code levels are in increments of one tenth (.1). Assuming that the complete domain of friction coefficient for most passenger car friction materials in use today is approximately four tenths (.4) or a range from .15 to .55, each increment is 25% of the total.

It should also be observed that a material which exhibits a friction coefficient of .351 and a material exhibiting a coefficient of .450 would both be coded as "F" level although there is numerically a .099 difference on the two values.

.099 is for all practical purposes .10 and with this line of reasoning it could be concluded that for any single code letter the friction coefficient of two different linings could vary by as much as 25% of their normal total range of coefficient and still be edge coded identically.

The numerical values for the friction coefficient are determined from certain portions of the SAE J661a test procedure.

The total SAE J661a test consists of seven parts:

1. Baseline
2. First fade
3. First recovery
4. Wear
5. Second fade
6. Second recovery
7. Baseline

Only the first recovery, second fade, and second recovery curves are utilized for edge coding purposes.

The SAE J661a test is conducted on a friction materials test machine. The machine (Fig. 2) is equipped with means for:

1. Measuring the drum temperature.
2. Heating the drum.
3. Controlling the drum heating rate.
4. Cooling the drum.

5. Controlling the drum cooling rate.
6. Measuring friction force.
7. Measuring drum rotational speed.

The basics of this test are that a uniform sample size (1 sq in.) of friction material is tested under uniform loading (150 psi), uniform rubbing velocity (417 rpm), controlled temperature (heating and cooling), and the friction coefficient is measured as the allowable variable against drum index temperatures.

The data from the SAE J661a test is normally plotted in graph format (Fig. 3).

The normal friction coefficient (Fig. 4) is defined as the arithmetic average of four points on the second fade curve located at 200, 250, 300, and 400 F.

The hot friction coefficient (Fig. 5) is defined as the arithmetic average of ten points located at 400 and 300 F on the first recovery curve; 450, 500, 550, 600, and 650 F on the second fade curve; and 500, 400, and 300 F on the second recovery curve.

At this point there should be a better understanding of the friction identification code, how it is determined, and what the code letters mean with respect to a range of friction coefficient values.

At no point in the SAE Recommended Practice has there been any mention of, or reference to, the term "quality." In fact, the wording of the procedure specifically notes that it does not designate other significant characteristics of brake linings.

If all of the previous statements are true and the friction coefficient system is only a "uniform means of identification," then why do manufacturers of friction material even bother to code their products?

Obviously a requirement is necessary if the friction identification system is to have any meaning or valid reason for existence.

Such a requirement does exist and it appears in two forms, although identical in content. These two forms are the SAE J998 Recommended Practice — Minimum Requirements for Motor Vehicle Brake Linings, and Vehicle Equipment Safety Commission (V.E.S.C.) Regulation V-3 — Minimum Requirements and Uni-

form Test Procedures for Motor Vehicle Brake Linings.

SAE is, of course, a technical society which has no legal authority to enforce any requirements. V.E.S.C. is an organization which has official regulatory agency recognition and the V-3 Regulation has been previously adopted by Kentucky, Massachusetts, New Jersey, New York, North Carolina, Rhode Island and, most recently, by Ohio, Pennsylvania, and Maryland as a legal requirement.

The SAE J866a Recommended Practice for edge coding, the SAE J998 Recommended Practice for minimum requirements for brake lining, and the V.E.S.C. V-3 Regulation for minimum requirements and uniform test procedures, are all interrelated due to their usage of the basic SAE J661a Test Procedure for data derivation.

The minimum requirements for brake lining as specified by these two procedures are:

No brake lining shall be approved which:

1. Has a normal friction coefficient below that of code class E (.25).
2. Has a hot coefficient below that of class D (.15), or
3. Exhibits a coefficient of friction below .15 on any of the five tests² at any of the following points:
 - a. Between 200 and 550 F inclusive on the second fade run.
 - b. Between 300 and 200 F inclusive on the second recovery run.
4. Exhibits more than a 20% or .050 variation of coefficient of friction, whichever is greater, below the average value of all five tests at each temperature specified in item 3 above.

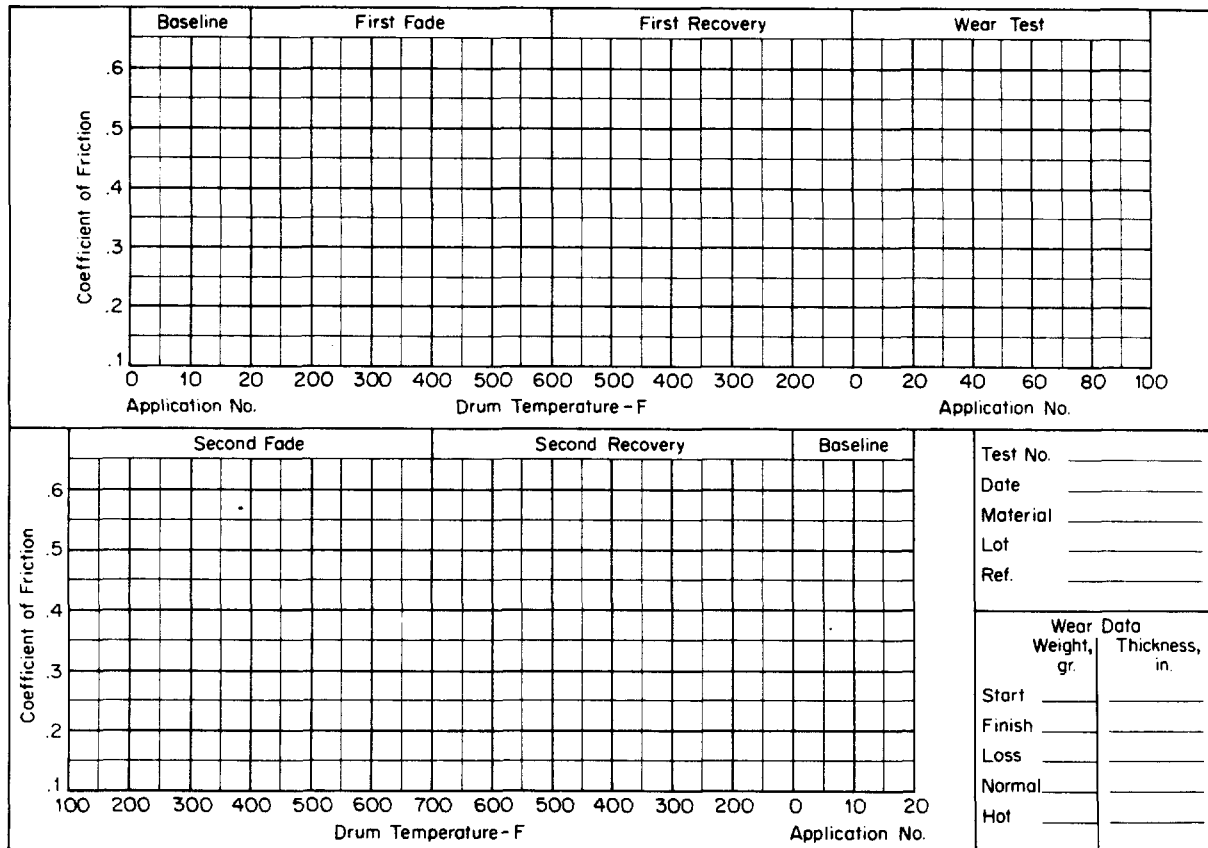
Both the SAE J998 Recommended Practice and the V.E.S.C. V-3 Regulation make specific notation regarding the proper design application of brake lining.

Again, the wording of the SAE J998 Recommended Practice is precise:

"The purpose of this SAE Recommended Practice is to establish minimum coefficient of friction requirements for brake linings used in the

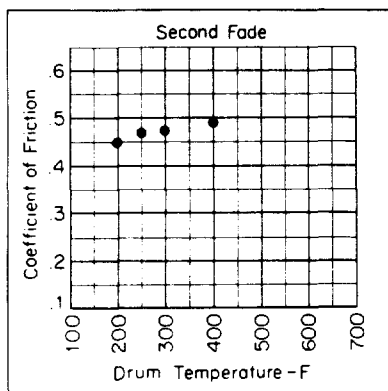
²For certification purposes, five tests of individual samples are required.

GRIZZLY MANUFACTURING DIVISION
SAE BRAKE LINING QUALITY CONTROL

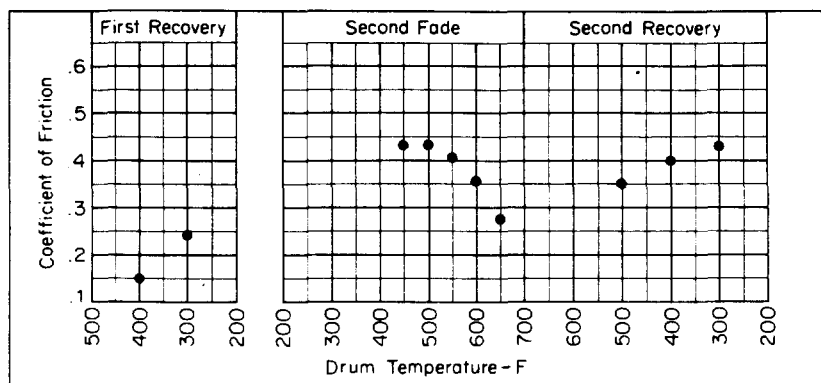


3. The data from the SAE Recommended Practice J661a — Brake Lining Quality Control Test Procedure is usually plotted in graph format.

NORMAL FRICTION COEFFICIENT
4 POINT AVERAGE



HOT FRICTION COEFFICIENT
10 POINT AVERAGE



4. Normal friction coefficient is average of four points on second fade curve.

5. The hot friction coefficient is defined as the arithmetic average of ten points that are located on the first recovery curve, second fade curve, and second recovery curve.

service brake system of a motor vehicle. Linings that meet these minimum friction requirements may not be suitable for use on all vehicles because of differences in brake design or application."

The key phrases are: *establish minimum coefficient of friction requirements . . . may not be suitable for use on all vehicles.*

The wording of the V.E.S.C. V-3 Regulation is:

"Approval of a brake lining as being in a specific coefficient of friction class does not constitute approval for the installation of that lining on all vehicles unless specifically stated. Brakes of different types require different levels of coefficient of friction which can be categorized among the levels adopted. The coefficient of friction classes do not substitute for the use of matched sets for particular installations."

Key phrases from the text are: *does not constitute approval for installation on all vehicles . . . brakes of different types require different levels of coefficient of friction.*

Note that in both the SAE J998 Recommended Practice and the V.E.S.C. V-3 Regulation there is again no reference to the term "quality." The only sense of quality is the conformance to a minimum specification.

Friction material quality

What then does constitute quality in a friction material?

In a very general sense, those same features that constitute quality in any product. These are in reality a combination of the first four definitions of quality initially reviewed. They are:

1. Quality is the degree to which a specific product satisfies the needs of a specific consumer.
2. Quality is the degree to which a product is preferred over competitive products of equivalent grade.
3. Quality is the degree to which a class of product possesses potential satisfaction for the general public.
4. Quality can be those distinguishing features of a product such as appearance, performance, reliability, and durability.

Obviously there are some distinguishing features of a quality product as outlined in the fourth definition of

quality that have not been mentioned in any of the practices and requirements just reviewed. A few specific examples for brake lining are:

Wear — Would a brake lining, properly edge coded and in conformance with the minimum requirements for friction coefficient, be considered a quality product if it resulted in only 1000 miles of normal, in-service use?

Erraticness — Would a brake lining, properly edge coded and in conformance with the minimum requirements for friction coefficient be considered a quality product if it continually exhibited variable side to side pulls of such a magnitude that would cause the driver to lose control of the vehicle?

Noise — Would a brake lining, properly edge coded and in conformance with the minimum requirements for friction coefficient, be considered a quality product if it consistently emitted loud, highly objectionable noises at every stop?

Drum/Disc Wear — Would a brake lining, properly edge coded and in conformance with the minimum requirements for friction coefficient, be considered a quality product if it wore out the brake drums or rotors in 500 miles of normal usage?

Structural Integrity — Would a brake lining, properly edge coded and in conformance with the minimum requirements for friction coefficient, be considered a quality product if for riveted applications the material did not have sufficient tensile strength to remain safely attached to the brake shoe under panic stop conditions?

These are just a few of the characteristics or distinguishing features of quality in a brake lining and obviously if a friction material exhibited any one of these faults it could not be considered a quality product.

We must therefore conclude that there is absolutely no relationship between friction codes alone and lining quality.

The most natural extension of this discussion would be a detailed, highly technical review of those specific attributes that constitute quality in a friction material. In this review we would analyze such quantifiable specifics as fade resistance, delayed fade, effectiveness, structural integrity, wear

characteristics, speed sensitivity, recovery, water sensitivity, water recovery, over recovery, and the like. We would have to address brake drum and rotor metallurgy, heat transfer, vehicle design as related to cooling air flow, application of friction materials to particular types of brake design geometry, and such. We would of necessity have to review subjective items such as noise, morning sickness, erraticness, and sensitivity, plus an infinite variety of characteristics resultant from the extraordinary driving habits of the motoring public who subject brake linings to operating conditions beyond all normal use expectations.

All of these characteristics, related functions, and conditions can and do exist. The subject is in all probability much too complex and subjective for a total review by any individual.

All of these items must naturally be considered as quality or absence of quality related.

Detailed reviews of these very technical and subjective items are normally discussed only between brake engineers and friction material compounders.

Occasionally some very small portion of the total scope of brake systems and friction materials will be isolated for review as we have attempted to do here in evaluating the relationship of friction codes to lining quality.

We can also conclude that conformance to the SAE J998 Recommended Practice or the V.E.S.C. V-3 Regulation offers a certain degree of protection for the consumer with respect to friction materials which are considered "substandard" in friction coefficient level and/or consistency.

It should additionally be noted that in conforming to these minimum requirements, other desirable quality features can (but not necessarily do) accrue to a friction material.

There are a lot of friction materials on the market today. In the majority they are safe, reliable materials, if properly applied both by design for the intended application and by actual installation practice.

From a total quality viewpoint, however, each material or combination of materials performs at different levels of competency. In this respect it is a mistake to judge the quality of a brake lining solely by its displayed edge code. ▲



March 4, 1982
PE82-042

Friction Materials Standards
Institute, Inc.
Bergen Mail Office Center
E. 210 Route 4
Paramus, New Jersey 07652

Cur

Attention: E. Drislane
Executive Director

Dear Ed:

Two copies of the article you requested are attached.
There is no need to return them.

Best regards,

F. C. Skelton
F. C. Skelton

jk

Attachments

NUT 2N

TELEPHONE (201) 615 0440

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

March 3, 1882

Mr. F. C. Skelton
Nuturn Corporation
Airport Road
Smithville, TN 37166

Dear Frank:

Enclosed is a copy of a worksheet I made up for the Jeep Corporation clutch facings since 1969. In going over my file, I find I have received no Jeep clutch facing information for 1981-82. I thought I might have it on MVMA Forms, but it turns out there is no Jeep on the MVMA Forms - strictly Passenger Car.

I have written a follow-up to Jeep in Toledo for some help. If you have anything on Jeep clutch facing usage for 1981-82 I would most appreciate it. Perhaps your OE Sales representative might be able to dig up some 1981-82 application information by size.

Please note that Jeep changed the terminology for models as they moved from year to year. The Trucks started out as 164, 264, 364, through the Gladiator terminology into J10 and J20. Similarly, I believe it was the C301, through Jeepster and Commando. I trust this chart is helpful.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

FMSI 14139

Jeep clutch facing analysis

[illegible]

FRICTION MATERIALS STANDARDS INSTITUTE, INC.
BERGEN MALL OFFICE CENTER
E. 210 ROUTE 4
PARAMUS N. J. 07652

March 2, 1982

Mr. F. C. Skelton
Nuturn Corporation
Airport Lane
Smithville, TN 37166

Dear Frank:

In 1973 you wrote an article that appeared in the SAE Journal entitled "Friction Codes Versus Brake Lining Quality." I have enclosed a "copy" of the first page of that article.

I have used this for years when someone calls trying to decide which Friction Code is best. And now, when we have run out of copies, I asked that the stencil be re-run. And you know the answer--we can't find the stencil.

Would you have a copy of this in decent condition that you could Xerox and send me. I will have another stencil cut and return the original to you. I'd appreciate it if you could help me out on this.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

Nuturn

TELEPHONE: (201) 845-0440

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

March 1, 1982

Mr. F. C. Skelton
Nuturn Corporation
Airport Lane
Smithville, TN 37166

Dear Frank:

Several weeks ago you called about an inconsistnecy on the dimensions for the FMSI 7083B-Outer assignment. This was a Bendix Friction Materials print, and I called them on the question.

We have since received corrected drawings. You may note also that there was a Left-Right switch on the drawings. We have made this correction to our files. Thank you for calling the problem to our attention.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

FMSI 14142

Noted

TELEPHONE (201) 261-0410

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER
E. 210 ROUTE 4
PARAMUS N. J. 07652

January 11, 1982

Ms. Nancy Judd
Nuturn Corporation
Airport Lane
Smithville, TN 37166

Dear Nancy:

Per our conversation of this date, I am sending you copies of two items that I had on file concerning asbestos concentrations in the general environment. One was published by two individuals with the Connecticut Department of Environmental Protection and is entitled "Monitored Asbestos Concentrations in Connecticut." I believe this should help quantify measurements in the general environment. I'm also sending along a copy of an item in the New York Times that contrasted school levels with those in the street. Perhaps this might also help.

I had nothing else in my files that I think would relate to your problem.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e
Enclosures

FMSI 14143



January 11, 1982

Mr. E. W. Drislane
FMSI
E-210, Route 4
Paramus, N.J. 07652

Enc

Dear Mr. Drislane:

Thank you so much for your assistance in our literature search related to asbestos in ambient air. As we discussed earlier today, information on this topic is extremely difficult to obtain. Anything that you can do to help us in this regard would greatly be appreciated.

Thank you again for your assistance.

Sincerely,

Nancy Judd
Nancy Judd

/nj



December 3, 1981

FMSI
East 210 Route 4
Paramus, NJ 07652

Cud

Dear Sirs:

Please send me twenty-five copies of your publication
"Friction Materials Work Practices Guide". Thank you
for your assistance with this matter.

Sincerely,

Nancy Judd
Nancy Judd

/nj

*Shippi 788
re charge
12/9/81*

Nuturn

November 16, 1981

Mr. Robert H. Nelson
Nuturn Corporation
311 Plus Park Blvd.
Suite 100
Nashville, TN 37217

Dear Rob:

The Accountants followed up today on the input for our historical sales reporting program. This would be the reporting for the nine months ending September 30, 1981. They have advised that Nuturn has not reported figures for the program.

As we had talked about Nuturn participation and I had written on October 6 about the program, I'm following up at this time for the Nuturn data. Enclosed is another copy of BULLETIN NO. 727 on the reporting for these nine months. If you will be reporting, please have your data in to the Accountants no later than November 30. If you will not be reporting, please let me know so that I can have the Accountants release the reports now.

If you have already sent the data in, please make another copy and send it directly to the Accountants, as they did not have your report as of November 16. Thank you for your cooperation on this matter.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc
Encs

W. W. Drislane
Executive Director

FMSI 14146

October 6, 1981

Mr. Robert H. Nelson
Nuturn Corporation
311 Plus Park Blvd,
Suite 100
Nashville, TN 27217

Dear Rob:

Per our recent phone conversation, I have placed your name on our mailing list for soliciting replies for our historical sales program. We had Cindy Hayes for that mailing, and we have changed our records per our recent conversation.

As I explained, Nuturn did not report for the six months, but I am enclosing a copy of the six months report for your information. Ordinarily, the data is sent only to those who report, and then only by the Accountants. This is an exception.

We hope that Nuturn will again report on a quarterly basis.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc
Enc:

E. W. Drislane
Executive Director

Nuturn

TELEPHONE (201) 845-0440

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

June 3, 1981

Ms. Penny Kimler
Corley Printing Company
9804 Page Boulevard
St. Louis, MO 63132

Dear Ms. Kimler:

This is another request for shipment from the stock of the "1981 Supplement to the 1980 Brake Shoe Identification Catalog."

Please ship 300 copies to:

Nuturn Corporation
311 Plus Park Boulevard
Nashville, TN 37217
Attention: G. Banasiak

Please ship by United Parcel Service. When you have shipped, would you kindly advise me on shipping date and the UPS charges. Thank you.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE



EWD/erc

E. W. Drislane
Executive Director

Catalog shipped 6/5/81, ups, per attached.

pd 7/20/81

(P)

Thank you,
Penny

FMSI 14148

OB = 01027

DATE SHIPPED 6-5-81

CONSIGNOR:
CORLEY PRINTING COMPANY
9804 PAGE BLVD.
ST. LOUIS, MO.
63132

CONSIGNEE: NUTURN CORPORATION
NAME 311 PLUS PARK BOULEVARD
NASHVILLE, TN 37217
ADDRESS ATTN: G.BANASIAK

CARRIER UPS: L
8
8 MO 6-71-978

QUANTITY	DESCRIPTION OF COMMODITIES	ZONE.	WEIGHT	UPS CHARGES
300	"1981 SUPPLEMENT TO THE 1980 BRAKE SHOE IDENTIFICATION CATALOG	3	35	\$5.24
	(P)			

8/3/81

DEAR MR. DRISDALE,

I believe the ATTACHED
COPY HAS ALL THE INFORMATION
YOU REQUESTED FOR THE
NUTURN CORP. SHIPMENT.

IF NOT, PLEASE GIVE ME A
CALL.

THANKS,

GARY A. CAROTTA

TWEEDLE LITHO CO

BRANIFF Airways (BRANIFF)										CI-553940	
DATE	DEST	RT	TH	IN	C/L	PAIDABLE	REVENUE	NO. OF	TICKETS	ETC.	CODES
3798						25000		X			
FROM: CINCINNATI TO: PARK PLEASANT, OHIO AIRCRAFT: 37217 TIME: 11:10 PM 2000 HARPER AVE ST. CLAIR SHORES, ILL. 60080											
AUTO DATA BOOK 400 735 367 19 3798											
TTL EXIT CINTI OHIO IN 800 RATED \$11.40 20.09 CT10 TO BE PREPARED											
RECEIVED IN GOOD ORDER AND CONDITION, EXCEPT AS NOTED MAY 21 1966											

Nuturn

August 7, 1981

Mrs. C. J. Hayes
Nuturn Corporation
311 Plus Park Blvd.
Suite 100
Nashville, TN 37217

Dear Cindy:

This refers to the shipment of 1,000 copies of the "1981 Automotive Book" ordered from our printers earlier this year. I had advised you that there were two separate 1,000 copy orders for Nuturn in Nashville.

You indicated that you had received one 1,000 copy order under your Purchase Order 032760 which was sent to your Heavy Duty Products Division, 737 Space Park South, in Nashville. You indicated, however, that the other 1,000 piece order could not be found.

I advised that that 1,000 piece order had been sent to Diane Hill's attention at 311 Plus Park Boulevard, in Nashville. Based on your phone request, I asked that the printer send us documentation that this 1,000 piece order had been received in Nashville.

Enclosed is a copy of the carrier's shipping notice and receipt. While Tweddle Litho Company in St. Clair Shores, Michigan (our printer) was the shipper, the catalogs actually went out of their bindery, Macke Brothers in Cincinnati, Ohio.

The receipt appears to be signed by a Mike Dawson of Nuturn Corporation on May 21, 1981. The order was on a skid, and I can't tell this from the notice, but I believe there were ten cartons to make up this skid, but I can't confirm that. In any event, this is the receipt that the carrier forwarded for this shipment. Nuturn should have been billed by Tweddle Litho Company, for these catalogs.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc
Enc:

E. W. Drislane
Executive Director

FMSI 14152

NUTURN

TELEPHONE (201) 848-0440

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER
E. 210 ROUTE 4
PARAMUS, N. J. 07652

July 14, 1981

COPY

Mr. R. J. Bracali
Tweddle Litho Company
24000 Harper Avenue
St. Clair Shores, MI 48080

Dear Ron:

I have received another request for a follow up on a shipment of the "1981 Automotive Data Book." This was from one of the original shipments back in May.

The specific order was to ship 1,000 copies to:

Nuturn Corporation
311 Plus Park Blvd.
Nashville, TN 37217

Mark: Dianne Hill

I asked that this shipment be made by Truck. (Note this shipment was in addition to another 1,000 piece shipment directed to Space Park South in Nashville, which was apparently received).

Nuturn claims they have no record of receiving this shipment. Could you please put a tracer on it and then send me the information. I would want to know carrier, number of cartons, date shipped, date received and have a copy of the signed receipt from the trucker. I beleive you know what I need. I believe this is another of poor control on the receiving end.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE

EWD/erc

E. W. Drislane
Executive Director

FMSI 14153

July 6, 1981

Mr. Robert H. Nelson
Nuruth Corporation
311 Plus Park Blvd.
Suite 100
Nashville, TN 37217

Dear Rob:

I am not sure on this, but I believe we sent you the only copy we had of Mr. Join's papers that I received after the Meeting. Could you please copy these papers at Nuturn and return the copies I had sent back to me.

Sorry for this inconvenience, but hope you can help me out on this.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc

E. W. Drislane
Executive Director

FMSI 14154



June 19, 1981

CW

Mr. E.W. Drislane
F.M.S.I.
Bergen Mall Office Center
E. 210 Route 4
Paramus, NJ 07652

RE: NUTURN PARTICIPATION

Dear Ed:

The F.M.S.I. meeting was excellent. You obviously have done a fine job organizing the members.

Enclosed is one of our new World Bestos catalogs with the 1981 F.M.S.I. insert. Thank you for your help in this project.

You can count on active participation from Nuturn.

Please note that Larry DeFrance, Vice President - Marketing, is located at:

Nuturn Corporation
570 Luna Drive
Nashville, TN 37211

My office is located at the address shown here. Please copy Larry, Frank Skelton, and me on F.M.S.I. Bulletins.

Please remember to send copies of the E.E.C. material Robert Join of the Federation of European Manufacturers of Friction Materials reviewed. Robert used the term Worker Protection Proposal. Thanks Ed.]

Please ~~do~~ not hesitate to call on me for support of Institute activities.

Sincerely,

Robert H. Nelson
Marketing Manager

RHN:gab
Enclosure
cc: L. DeFrance
G. Carrigan, Jr.

July 1, 1981

Mr. Robert H. Nelson
Nuturn Corporation
311 Plus Park Blvd.
Nashville, TN 37217

Dear Rob:

This is with reference to your letter of June 19, 1981.

We will list you as the Delegate from Nuturn. Unless advised otherwise, I will have Mr. Larry DeFrance listed as the Alternate. In that way, you will both receive all bulletins from the Institute.

In the meanwhile, we will continue Frank Skelton on the mailing list for all technical bulletins.

You mentioned Mr. Robert Join's presentation at the meeting concerning "Protection of workers from the risks Related to Asbestos." A copy of draft report that Mr. Join commented on at the meeting is enclosed. I did not have a copy of this paper until Bob Pigg of the Asbestos Information Association sent along a copy that he received from Mr. Join.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc
Enclosure: EEC papers

E. W. Drislane
Executive Director

FMSI 14156

MAY 21 1981

NUTURN CORPORATION

Mr. Jim Mellow of Nuturn--a Delegate and Director of the Institute--called early in May 1981 to advise that he had resigned from Nuturn.

He advised that Mr. Larry DeFrance would be assuming his duties.

However, there is no Alternate from Nuturn at this time.

In conversation with Frank Skelton on May 20, 1981 he advised that he too had been downgraded.

New management had come on board at Nuturn. A Mr. Colin J. Sinclair has come from Turner & Newall (not from Ferodo). He has apparently made many changes.

Mr. Ed Koss, who was the Delegate from Chrysler Cycleweld Division has been hired. He will replace Mr. Skelton. Mr. Skelton will report to Mr. Koss.

Diane Hill, who did some ordering from Nashville, has been transferred to the heavy duty division.

As of May 20, 1981 there is no Delegate or Alternate from Nuturn. I will continue to deal with Frank Skelton on technical matters. I will have to contact Nashville soon to go over the Delegate/Alternate arrangements.

ROB NELSON
STEVE WYSS (w/28 FOR SKELTON)

FMSI 14157



February 2, 1981

Friction Materials Standards Institute, Inc.
Bergen Mall Office Center
E. 210 Route 4
Paramus, N.J. 07652

Dear Sirs:

Please add the following name to your mailing list:

Mr. David T. Rex
Nuturn Corporation
Heavy Duty Division
P. O. Box 618
Antioch, TN 37013

The following name is presently on your mailing list but
needs to be dropped:

Mr. R. Steinmetz
Nuturn Corporation
Heavy Duty Division
P. O. Box 618
Antioch, TN 37013

*OK
enc 2/6/81*

Thank you,

Cathy Arnold

Cathy Arnold
Nuturn Corporation

/ca

MAIL TO: POST OFFICE BOX 618 • ANTIOCH, TENNESSEE 37013
737 SPACE PARK SOUTH • NASHVILLE, TN 37211 • 615/834-3800 • TELEX NO. 555128
HEAVY DUTY PRODUCTS DIVISION

FMSI 14158



January 14, 1980

Mr. E.W. Drislane
Friction Materials Standards Institute
E. 210 Route 4
Paramus, New Jersey 07652

Ed,

Per the attached, Canadian Distex Corporation, Ltd. will need to apply for membership in FMSI. Please contact them for action.

Regards,

James L. Mellow
Vice President of Marketing
Friction and Brake Products

JLM/dh

cc: J.W. Greenen

Canadian Distex Corp. Ltd.

4975 FISHER ST.
ST. LAURENT, MONTREAL, (QUE.) H4T 1J8
CANADA.

TEL.: (514) 733-8226
TELEX: 05-824504

TEL. (514) 733-8226/7
TELEX 05-825604

Canadian Distex Corp. Ltd.
4975 FISHER ST., ST. LAURENT, MONTREAL, QUE. H4T 1J8

MONI MEVORAH
PRESIDENT

INTERCHANGE

D #	F.M.S.I. #	Our #	D #	F.M.S.I. #	Our #	D #	F.M.S.I. #	Our #
D-52	702-D 23	300.009	D-147	7008-D 71	300.075	D-212		
D-64	707-D 24	300.010	D-148	7009-D 76	300.074	D-213		
D-66	709-D 25	300.021	D-149	7010-D 77	300.053	D-214		
D-71	716-D 27	300.007	D-150	7011-D 78	300.054	D-216		
D-81	719-D 2	300.017	D-151	7016-D 83	300.061	D-217	7043-D109	300.097
D-83	724-D 4	300.003	D-152	7015-D 82	300.049	D-224	7046-D113	300.115
D-84	745-D 61	300.006	D-153	777-D 32	300.056	D-225	7044-D110	300.114
D-85	747-D 5	300.020	D-154	794-D 57	300.086	D-226	7051-D 2	300.111
D-86	726-D 7	300.002	D-155	782-D 41	300.067	D-227	7052-D118	300.103
D-87	723-D 62	300.039	D-156	792-D 54	300.025	D-228		300.083
D-89	744-D64	300.019	D-157		300.078	D-229	7050-D117	300.101
D-97	721-D 9	300.001	D-159	785-D 48	300.081	D-230		300.063
D-99	729/A-D47	300.005	D-160	791-D 56	300.079	D-231		300.034
D-100	729-D 46	300.004	D-161	797-D 79	300.106	D-232	7057-D127	300.026
D-101	755-D 21	300.092	D-163	793-D 49	300.051	D-235		300.096
D-102	736-D 31	300.011	D-164		300.076	D-237	7048-D115	300.124
D-103	754-D 44	300.036	D-168		300.088	D-240	7045-D111	300.136
D-105	789-D 51	300.040	D-170	7042-D108	300.023	D-242	7059-D 41	300.139
D-111	735-D 30	300.038	D-172		300.066	D-243	7059-D115	300.119
D-112	734-D 45	300.018	D-173		300.077	D-244	7067-D135	300.120
D-116	760-D 68	300.008	D-174	797-D 59	300.065	D-245		300.125
D-117	7012-D 68	300.043	D-176	7025-D 94	300.089	D-246	7068-D136	300.122
D-118	764-D 43	300.022	D-177	7033-D 49	300.108	D-247	7068-D136	300.121
D-119	765-D 44	300.036	D-178	793-D 97	300.052	D-248		300.118
D-120	799-D 69	300.030	D-179		300.055	D-249		300.057
D-121	7000-D 70	300.042	D-180		300.058	D-252	7069-D137	300.126
D-122	790-D 54	300.024	D-184		300.087	D-253		300.141
D-123	7001-D 71	300.027	D-188	7034-D 99	300.095	D-254		300.082
D-124	7002-D 69	300.033	D-190		300.028	D-255		300.140
D-125	770-D 40	300.035	D-193	785-D112	300.112	D-256		300.137
D-126	780-D 37	300.062	D-194	7022-D 68	300.085	D-257	7061-D130	300.123
D-127	7003-D 69	300.031/2	D-195	7021-D 45	300.094	D-258	7062-D131	300.127
D-128	7004-D 75	300.078	D-196	7023-D 58	300.090	D-259	7063-D132	300.131
D-129	7005-D 73	300.041	D-198	7036-D100	300.080	D-260	7064-D133	300.128
D-134	798-D 54	300.029	D-199	7032-D 96	300.084	D-261	7065-D134	300.129
D-136	7006-D 74	300.060	D-200	7031-D 96	300.099	D-262	7066-D132	300.130
D-138	719-D 2	300.105	D-201	793-D 98	300.045	D-263		300.132
D-139		300.037	D-202	7040-D104	300.068	D-264		300.142
D-141	796-D 58	300.100	D-203	735-D 31	300.091	D-268		300.098
D-142	783-D 42	300.064	D-204	7057-D124	300.138	D-269		300.133
D-143	784-D 43	300.016	D-205	7037-D101	300.117	D-270		300.134
D-144	786-D 49	300.050	D-206	7039-D103	300.116	D-272		300.135
D-145	7007-D 80	300.059	D-207		300.093	D-275		300.143
D-146	795-D 57	300.110	D-211		300.109			

Nuturn

December 17, 1979

Mr. J. W. Greenen
Nuturn Corporation
43-175 Delaware
Palm Desert, California 92260

Dear Joe:

I received your letter of December 10, 1979 indicating that you were resigning from your position as a Director of the Institute effective December 15, 1979. As your letter indicated "1969" I wonder if you want us to make it retroactive to that date.

Ron Moalli had called me about this earlier but I indicated to him that I had not heard from you at that time. I'm happy to see that you will continue as the Alternate from Nuturn and, of course, will defend your championship on the golf course this coming June at the Homestead.

As I may not have had the opportunity to do this before, I would like to thank you for your active Presidency when I first came to the Institute. In particular, you helped make the move to Paramus possible, and you got a pension plan started at the Institute. My thanks for your many contributions to the Institute.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

EWD/lmc

E. W. Drislane
Executive Director

FMSI 14161

Nuturn Corp

December 11, 1979

Mr. James L. Mellow
c/o Nuturn Corporation
311 Plus Park Boulevard
Suite 100
Nashville, TN 37217

Re: Delinquent Account #95196-\$757.54

Dear Mr. Mellow:

On 10/16/79 I sent you a reminder that your account with us is delinquent in the amount of \$757.54. To date we have not received payment nor a reply.

Because Ocean Reef does not charge interest on the unpaid balance, we ask that the accounts be paid in full within 30-60 days. Your account has been outstanding since June and we feel that payment should be remitted immediately.

If you have already mailed your check, please accept our thanks.

Sincerely,

Dottie Ramsey, Supervisor
Accounts Receivable

DR:gr

cc: Motion Materials Standard ✓
Inc.

OCEAN REEF CLUB
Key Largo, Florida 33037

FMSI 14162



August 24, 1979
PE79-325

Friction Material Standards Institute, Inc.
Bergen Mall Office Center
E. 210 Route 4
Paramus, N. J. 07652

ATTN: Mr. E. W. Drislane
Executive Director

A handwritten signature, likely of the sender, is written in dark ink.

Dear Ed:

Reference your August 21st letter, for your information, Nuturn has built a brand new facility in Smithville, TN. This facility is a combined office, manufacturing and warehouse grouping of approximately 300,000 square feet.

Our Product Engineering function has been relocated from Paulding, OH, to Smithville, TN. as of August 7th.

Our Smithville address is:

Nuturn Corporation
Airport Lane
Smithville, TN. 37166

and our phone number is:

(615) 597-6700

So it's the same people and the same job, in a different geographical location.

Best regards

A handwritten signature of F. C. Skelton is written in dark ink.

F. C. Skelton
Dir. of Eng.

FCS/mf



NEWS RELEASE

311 Plus Park Boulevard • Nashville, Tennessee 37217 • 615/367-9900

August 15, 1979

NUTURN CORPORATION ACQUIRES WORLD BESTOS ASSETS
FROM LEAR SIEGLER, INC.

In an announcement today, Nuturn Corporation (Nashville, Tennessee) stated that the purchase of Lear Siegler, Inc.'s World Bestos Division had been consummated. Included in the transaction were the World Bestos trade name and essentially all assets that had been employed in that business which was operated from New Castle, Indiana. The transaction was made for an undisclosed amount of cash.

World Bestos has traditionally been a leading manufacturer of heavy duty brake friction material for both the original equipment and replacement markets. In announcing the acquisition, Robert C. Rogers, President and Chief Executive Officer of Nuturn, was quoted as saying, "There will be no significant changes to the World Bestos product line, nor to the marketing approach that has proven so successful for the World Bestos brand."

Physical operations of the World Bestos business will continue in place in New Castle, Indiana with retention of virtually all key operating personnel.



NEWS RELEASE

311 Plus Park Boulevard • Nashville, Tennessee 37217 • 615/367-9900

Page 2

Nuturn announced that World Bestos product shipments would return to normal levels after a few weeks of operations review and inventory build up. Management of World Bestos will be under Robert G. Steinmetz, Vice President and General Manager of Nuturn's Heavy Duty Products Division.

In summarizing the impact of this acquisition, Rogers stated: "We are extremely happy to have World Bestos under the Nuturn umbrella. It will validate a strong commitment to the heavy duty market and will create -- with our well established Grizzly and Leland brand names -- a much stronger Nuturn ability to serve growing market needs."

Nuturn is a major manufacturer of friction, brake and under-chassis replacement parts for the transportation industry with Corporate Headquarters in Nashville, Tennessee. Nuturn has other manufacturing facilities in Tennessee and Ohio, as well as a network of distribution centers throughout the U.S.

For further information, contact Mr. Laurence DeFrance, Vice President, Corporate Development.

FMSI 14165

MAILING LIST CHANGE

Member Naturum Date 5/31/79

This change effects the following lists:

General Bulletins - Active	☐	Foreign Shoe Bulletins	☐
General Bulletins - Regional	☐	Delegates & Alternates	☐
General Bulletins - Licensees	☐	Annual Fee Billing	☐
Data Book Bulletins	☒	Regular Billing	☐
Shoe Bulletins	☒		

Change List As Follows:

change to Dorian Hill
Increase mailing ~~to Mike Stank~~
300 Data Book Bulletins
300 Shoe Bulletins

DANNE

Dorian

Source of Change: Dorian Hill, Naturum 5/30/79

	<u>Name</u>	<u>Date</u>
Requested by:	<u>and</u>	<u>5/31/79</u>
Rolodex Files (Both) Changed:	<u>ERI</u>	<u>5/31/79</u>
Addressograph Plate Changed:	<u>ERI</u>	<u>5/31/79</u>
Address/Telephone Directory Changed:	<u>—</u>	<u>—</u>

Nuturn

May 2, 1979

ce

Mr. J. L. Mellow
Nuturn Corporation
311 Plus Park Boulevard
Nashville, TN 37217

Dear Jim:

Thank you for your letter of April 26, 1979 along with the Interfriction Corporation documents. I will be following up on the dues category being paid by Friction Materials Corporation based on your letter.

Thank you for these lists.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc

E. W. Drislane
Executive Director

FMSI 14167



26th February, 1979
PE79-110

Mr. E. W. Drislane
Friction Materials Standards Institute, Inc.
Bergen Mall Office Center
East 210 Route 4
Paramus, New Jersey 07652

Dear Ed:

In 1978, our Sales Department requested that the FMSI Data Book Bulletins and Shoe Bulletins which we purchase for redistribution to our customers, be mailed to M. R. Stanko at our Nashville location.

As a result of this change and Mr. Stanko's newness in our business, our Product Engineering office in Paulding has not been receiving these needed bulletins and reference drawings for our applications work.

Will you please put me on the mailing list for one copy of all bulletins, drawings, etc.?

Additionally, to make certain we haven't missed anything, will you please send me copies of all data issued since Shoe Bulletin #86 and Data Book Bulletin #278, which are the last ones we received here at Paulding.

Finally, an extraneous thought about the Data Book. I think it would be advantageous for all FMSI members if the OEM use of semi-metallic materials could be identified in the Data Book and/or Bulletins, similar to the manner you identify bonded or integrally moulded attachment methods.

Sincerely,

Frank C. Skelton
Director of Engineering

FCS:dp

March 6, 1979

Mr. F. C. Skelton
Nuturn Corporation
Friction Products Division
700 West Caroline Street
Paulding, Ohio 45879

Dear Frank:

This confirms our conversation of last week and is in reply to your letter of February 26, 1979. We will add your name to our mailing list for 1 copy each of Data Book Bulletins and Shoe Bulletins that we publish. In addition, we will send you the individual prints for every new release which are listed in those bulletins. We will continue sending Mr. Stanko the larger volume of technical bulletins that they use for distribution to customers but Mr. Stanko will no longer receive the prints that he had been receiving.

Per your letter we are enclosing copies of all Data Book Bulletins and Shoe Bulletins which had been issued since the last one you had received. In addition, we are enclosing one copy of every print which had been released during this time. Those prints had been sent to Mr. Stanko in the past. I believe that this should catch you up to date as regards technical bulletins and prints.

As to your last paragraph that will require a little work. I cannot, of course, make a change like this on my own. Suggestions of a similar nature have been raised in the past and we have generally avoided indicating compounds in our catalogs. While we indicate integrally molding and bonding that is because of attachment and the resulting measurements for thickness for an integrally molded piece. I will add this suggestion to the list of items that will be on the next agenda for our Data Book and Technical Committee meeting. I will review this with the Chairman, Mr. Phil Grim of Abex, Corporation prior to that meeting.

There are problems if we were to list the type of material in our catalog. In particular, I am concerned less we miss a certain OE semi-metallic type and are then exposed to liability problems. As I am sure you are everybody is concerned in this product liability area and I have some misgivings about indicating material types in the catalog. However, it will be presented to the Data Book and Technical Committee for their consideration.

Sincerely,

EWD/lmc
Encs.

E. W. Drislane
Executive Director

FMSI 14169

MAILING LIST CHANGE

Member Nature

Date 3-2-79

This change effects the following lists:

General Bulletins - Active	☒	Foreign Shoe Bulletins	☐
General Bulletins - Regional	☐	Delegates & Alternates	☐
General Bulletins - Licensees	☐	Annual Fee Billing	☐
Data Book Bulletins	☒	Regular Billing	☐
Shoe Bulletins	☒		

Change List As Follows:

Send me copy of each Web Book and Shoe Bulletin (and
THE PRINTS)

to: F.C. Shelton
Nature Coordinator
700 West Caroline St.
Pawley OH 45879

Source of Change: FC Shelton Nature 2/26/79

	<u>Name</u>	<u>Date</u>
Requested by:	<u>Cue</u>	<u>3-2-79</u>
Rolodex Files (Both) Changed:	<u>ERC</u>	<u>3/2/79</u>
Addressograph Plate Changed:	<u>ERC</u>	<u>3/2/79</u>
Address/Telephone Directory Changed:	<u>—</u>	<u>—</u>

Nuturn

September 25, 1978

Mr. F. C. Skelton
Nuturn Corporation
Grizzly Friction Products
700 West Caroline Street
Paulding, Ohio 45879

Dear Frank:

Several years back I believe that you sent me copies of the codes and friction ratings for various brake lining releases certified in New York State. Subsequent to that, the AAMVA took over the certifying of brake lining formulations for various states including New York. The last listing I had was of January 1, 1972. I was wondering if you might have a later listing from New York State as regards approved brake lining formulations. If you have such information I'd appreciate your sending me a copy.

It may be that I will have to go to the AAMVA for its list of approved devices for this information. I'm really not looking for the individual lining friction codes. I am looking more for the manufacturer's code that is included in the edge branding on brake linings. If you have anything on this it would be most helpful.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

EWD/lmc
Enc.

E. W. Drislane
Executive Director

FMSI 14171

Return

June 20, 1978

Mr. L. Gansky
Success, Inc.
1345 West 16th Street
Indianapolis, Indiana 46202

Dear Mr. Gansky:

According to our records there should be 2,365 copies of the "1978
Prake Shoe Identification Catalog" in your stock. (This is the
blue covered book).

Would you please make the following shipment:

500 Copies, by Truck Prepaid to:

Return Corporation
700 West Caroline Street
Caulding, Ohio 45279

Attention: Shirley Schletter

When shipped, please bill the Institute for the freight charges.

Sincerely,

FRISTON MATERIALS OF AND FOR THE INSTITUTE

E.D./erc

E. L. Grislane
Executive Director

PC 4/1-8

Q

FMSI 14172

**PURCHASE ORDER****014160**

- IMPORTANT -

THIS ORDER NUMBER MUST APPEAR
ON ALL PACKING SLIPS, INVOICES,
PACKAGES AND CORRESPONDENCE.
DUPLICATE INVOICES REQUIRED FOR
EACH SHIPMENT.

TO:

VENDOR NO.

Friction Materials Standards Institute
E-210 Route 4
Paramus, New Jersey 07652

DATE: 7/11/78

**SHIP
TO:**

NUTURN CORPORATION
700 W. CAROLINE STREET
PAULDING, OHIO 45879

**INVOICE
TO:**

NUTURN CORPORATION
700 W. CAROLINE STREET
PAULDING, OHIO 45879

SHIP VIA:

F.O.B.:

TERMS:

net

DELIVERY REQUIRED
AT OUR PLANT:

THE TERMS AND CONDITIONS APPEARING ON THE REVERSE SIDE ARE PART OF THIS ORDER.

ITEM	QUANTITY	UNIT	DESCRIPTION	PRICE	UNIT
	1	yr.	Annual Fee for 1978-79 Fiscal Year Payable 7/1/78 - First half \$1,500 Confirming P. O. only - Ref. Your Inv. 002729 () This purchase is taxable () Tax exempt from sales & use taxes under Cert. #77-000630 issued by State of Ohio	\$3,000	Annually

PLEASE ACKNOWLEDGE PRICE AND DELIVERY DATE. SIGN AND RE-
TURN ACKNOWLEDGMENT COPY. NUTURN PART NUMBER MUST BE
CLEARLY MARKED ON EACH PACKING SLIP.

Evelyn Thompson
AUTHORIZED SIGNATURE

NUTURN CORPORATION

VENDOR

NC-3808

FMSI 14173

TERMS AND CONDITIONS

1. Acceptance of this order must be made by return mail and must state the date of shipment, or Buyer shall not be liable for the purchase price of the goods delivered pursuant hereto.
2. A purchase order must be effective and binding upon Buyer must be limited to the terms hereof, and shall contain no terms other than the terms herein. **Without limiting the generality of the foregoing,** it is expressly agreed that no changes are to be made in the terms, conditions, price or delivery without the Buyer's prior written authority therefor, and until such written authority is given, such proposed changes shall be deemed counter-offers and shall not be a part of the agreement between the parties.
3. By placing this order, the Seller guarantees that the articles described herein, and the sale or use of them, will conform to any applicable law or for better or for ill, and the Seller agrees to defend, protect and save harmless the Buyer from all claims and damages arising out of the use of its products against all suits or damages, except in the event of damages caused by the Buyer's negligence, and any person or person of the use of the product, or any person or person of the use of the product, and the Seller's liability shall be limited to the extent of the damages caused by the Buyer's negligence, and the Seller's liability shall be limited to the extent of the damages caused by the Buyer's negligence.
4. By placing this order, the Seller guarantees that with respect to the manufacture of the articles described herein, the Seller shall comply with the Federal Fair Labor Standards Act of 1937, as amended.
5. No agreement, written or oral, in any way modifying the terms of the contract shall be binding on the Seller unless it is in writing and signed by the Buyer and the Seller.
6. No contract will be enforceable, packing, crating, draying or storage unless in writing.
7. The Buyer assumes the obligation for materials shipped in quantities different from those specified on the purchase order.
8. Buyer shall be free to change or amend or ~~revoke~~ **cancel** this order at any time before its acceptance by the Seller.
9. Buyer reserves the right to cancel this order or any portion thereof at any time before its acceptance by the Seller.
10. Payment for material of this order shall not constitute an acceptance of the goods, and no material shall be received subject to inspection and rejection. Defective material or material not in accordance with the contract will be returned to the Seller at the Buyer's expense, and at the risk, the goods returned as defective shall be reshipped without charge.
11. Seller expressly warrants that all articles, material and work covered by this order will conform to the specifications, drawings, samples or other description furnished or adopted by the Buyer, and will be of good quality, fit for the purpose intended, and made of good material and workmanship and free from defect. The Seller will not be liable for obtaining the materials or for the Buyer, make any change in design, substitution of materials, or deviation from specifications, or the use of or parts covered by this order.
12. Any tools, gages, dies, jigs, fixtures and patterns (1) furnished by the buyer or (2) which the Buyer specifically authorizes the Seller to use for work on this purchase order shall be listed and maintained in suitable condition to do the work by and on behalf of the Seller, and returned to the Buyer at any time upon request therefor by the Buyer. Seller expressly not to permit the use of any such tools, gages, dies, jigs, fixtures and patterns in the manufacture of other articles unless the Buyer has specifically authorized.
13. When articles subject to cash discount are not mailed on date of shipment or are not accompanied by bill of lading, discount shall be calculated on an invoice, and bill of lading, when received.
14. The price of any article is fixed at a price higher than that actually charged by the Seller, such price is stated on the face of the invoice.
15. Consistent PACKING LIST must accompany each shipment.

Return

June 16, 1978

Mr. J. W. Greenen
43-175 Delaware
Palm Desert, California 92260

Dear Joe:

I'm enclosing a copy of the front cover of a World Parts Catalog (WP4000-78). This is their 1978 Catalog. I believe World Parts is part of the Maremont Corporation, or was affiliated in some way with it. As I only have the cover and some pages showing brake lining parts, I was wondering (with your connections with Maremont) if you could get me a copy of the full Catalog.

From the looks of the content on these few pages that I received, it could be that the World Parts Catalog would be helpful in keeping up with disc and drum brake parts used on imported cars. Anything that you can do as regards getting me this Catalog, or advising where I could get one would be most appreciated.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

EWD/lmc
Enc.

E. W. Drislane
Executive Director

MAILING LIST CHANGE

Member Hufnurn

Date 6/20/78

This change effects the following lists:

General Bulletins - Active	☐	Foreign Shoe Bulletins	☐
General Bulletins - Regional	☐	Delegates & Alternates	☐
General Bulletins - Licensees	☐	Annual Fee Billing	☐
Data Book Bulletins	☒	Regular Billing	☐
Shoe Bulletins	☒		

Change List As Follows:

125 Leak Book Bulletin
100 Shoe Bulletin

Remove S. Schlatter from list

Replace with:

Mr. Mike Stanke
311 Plus Park Blvd.
Suite 104
Nashville, TN 37217

Source of Change: S. Schlatter phone 6/20/78

	<u>Name</u>	<u>Date</u>
Requested by:	<u>me</u>	<u>6/20/78</u>
Rolodex Files (Both) Changed:	<u>me</u>	<u>6/20/78</u>
Addressograph Plate Changed:	<u>me</u>	<u>6/20/78</u>
Address/Telephone Directory Changed:	<u>—</u>	<u>—</u>

December 7, 1977

Called 12/13/77

Mr. M. M. Banasiak
Maremont Corporation
200 East Randolph Drive
Chicago, Illinois 60601

Nuturn Corp

230 North Michigan Ave

Chgo IL 60601

Since 10/10/77

Dear Mr. Banasiak:

Since our phone conversation of October 14, 1977, I have not heard from you about your new address. Have you moved? Is your address the same as above? Are you still Maremont Corporation or have you changed to Nuturn Corporation?

I would like to change all my records and need this information. Also I have you down for our Blue and Pink Bulletins, is this all you need?

Any help you can give me will be appreciated.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

END/erc

Sally R. Collins (Miss)
Office Manager

12/13/77. Mr. Banasiak called to change his address. Also advised that Chris Hansen was no longer with Nuturn Corp (Maremont).

10/14/77

Called

*Leave address as
is. will be moving
next month and
will notify us*

October 12, 1977

Mr. M. M. Banasiak
Maremont Corporation
200 East Randolph Drive
Chicago, Illinois 60601

Dear Mr. Banasiak:

Since Maremont Corporation is now known as Nuturn Corporation,
I would like to know if you will be continuing on our mailing
list and if your address has been changed to Nuturn Corporation
in Chicago.

Your help in this matter is greatly appreciated.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

ERC/erc

Emily R. Collins (Miss)
Office Manager

supplement

Bulletins Pink, Blue

MAILING LIST CHANGE

Member Nature Corp

Date 12/2/77

This change effects the following lists:

General Bulletins - Active	☐	Foreign Shoe Bulletins	☐
General Bulletins - Regional	☐	Delegates & Alternates	☐
General Bulletins - Licensees	☐	Annual Fee Billing	☐
Data Book Bulletins	☒	Regular Billing	☐
Shoe Bulletins	☐		

Change List As Follows:

*Increase Data Book Bulletin from 100 to 125
(no change in the Bulletin)
to member, Pauline Gher - S. Schlotter*

Source of Change: S. Schlotter, Nature, 12/2/77

	<u>Name</u>	<u>Date</u>
Requested by:	<u>EWJ</u>	<u>12/2/77</u>
Rolodex Files (Both) Changed:	<u>ERC</u>	<u>12/5/77</u>
Addressograph Plate Changed:	<u>—</u>	<u>—</u>
Address/Telephone Directory Changed:	<u>—</u>	<u>—</u>

December 6, 1977

Ms. Shirley Schlatter
Nuturn Corporation
700 West Caroline Street
Paulding, Ohio 45879

Dear Ms. Schlatter:

This is to acknowledge your phone request to change our mailing of the pink Data Book Bulletins from 100 copies per mailing to 125 copies per mailing. As I understand it you will continue to receive the same 100 copies of the Shoe Bulletins.

Also, under separate mailing on Friday, December 2, 1977 we shipped 25 additional copies of Data Book Bulletins #274 and #275.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

EWD/lmc

E. W. Drislane
Executive Director

Nuturn Corporation

August 23, 1977

Mr. James Mellow
Nuturn Corporation
311 Plus Park Blvd.
Suite 100
Nashville, Tenn. 37217

Dear Jim:

Based on Nuturn Corporation's acquisition of Maremont's Friction Products Groups from Maremont Corporation, the Institute would like to initiate a formal name change procedure for your membership. In order to do this I will need a letter from you or other Nuturn executive asking that the membership formerly held by Maremont Corporation be transferred to the Nuturn Corporation.

A member of the Institute must be a manufacturer of friction materials. For this reason we had earlier listed the Grizzly Friction Products Group in Paulding, Ohio as the name and address of the member. If your corporation feels it appropriate to have the address as Nashville rather than Paulding, please let me know. I'd appreciate a letter asking that this name change be made so that I could advise our Board of Directors, and ask their vote for this change.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE, INC.

EWD/lmc

E. W. Drislane
Executive Director

FMSI 14181



700 W. CAROLINE ST.
PAULDING, OHIO 45879

September 8, 1977

Friction Materials Standards Institute, Inc.
Bergen Mall Office Center
East 210 Route 4
Paramus, New Jersey 07652

Attn: Mr. E. W. Drislane
Executive Director

Dear Ed:

Please forward, to the attention of the writer, one copy of print
on 1236B Clutch Facing.

Best regards,

Frank C. Skelton
Frank C. Skelton
Director of Engineering

FCS:dp

*No charge \$291
plus per
print 9/13/77*

FMSI 14182

Maremont Corporation

JUL 01 1977

**New brake venture set
by Maremont, UK firm**

CHICAGO.—Maremont Corp. and Turner & Newall, Ltd., of England are forming a joint company to acquire Maremont's friction material and brake part operations.

Turner & Newall will hold about 80 percent of the new firm, for which it will pay about \$2 million, it said.

"
NUTURN CORPORATION
"

PAULING'S FRICTION MATERIALS

NASHVILLE'S— DISC BRAKE PADS AND BONDING

NASHVILLE'S — HEAVY DUTY (LEYLANDS etc)

APPLICATION FOR MEMBERSHIP

BOARD OF DIRECTORS OF
CLUTCH FACING & BRAKE LINING STANDARDS INSTITUTE, INC.

GENTLEMEN:

THE UNDERSIGNED HEREBY APPLIES FOR MEMBERSHIP IN CLUTCH FACING
AND BRAKE LINING STANDARDS INSTITUTE, INC. AS A CHARTER MEMBER, AND
CERTIFIES TO THE FOLLOWING:

NAME OF APPLICANT: GRIZZLY MANUFACTURING COMPANY

STATE OF INCORPORATION: CALIFORNIA

PRINCIPAL OFFICE: FAULDING, OHIO

*Grizzly Brake Lining
of Mar 1950 - Inc.*

THE UNDERSIGNED HEREBY ACKNOWLEDGES RECEIPT OF A COPY OF THE
CONSTITUTION AND BY-LAWS OF THE INSTITUTE AND AGREES THAT, IF ELECTED
TO MEMBERSHIP, IT WILL ACCEPT AND BE BOUND BY THE SAID CONSTITUTION
AND BY-LAWS, TOGETHER WITH ANY AMENDMENTS THAT MAY FROM TIME TO TIME
BE MADE THERETO, AND FURTHER AGREES THAT IT WILL ACCEPT AND BE BOUND
BY ANY REGULATIONS OR CODE DEFINING UNFAIR PRACTICES THAT MAY HEREAFTER
BE ADOPTED BY THE MEMBERSHIP.

THE UNDERSIGNED HEREBY DESIGNATES JOE G. BROWN

AS ITS DELEGATE AND F. W. SHELTON

AS ALTERNATE DELEGATE, TO REPRESENT IT AT ANY MEETING OF THE MEMBERSHIP.

GRIZZLY MANUFACTURING COMPANY

By

Joe Brown.

DATED DECEMBER 29, 1948.

6/-/54 - Delegate - J.W. Shelton
Alternate - J.R. Heath
10/18/60 K.W. Maxwell (alt)
R.W. Brown Jundy (alt)

3/11/55
J.E. Hoveman, Delegate
H.H. Swann, Alternate
11/20/59
J.R. Heath - Delegate