

Data Sheet
Chelsea Proving Grounds
August 18, 1986

Department 5720

Permissible Exposure Limit	Asbestos fibers per cc with lengths > 5 microns	
	<u>Result</u> 0.2	<u>T. W. A.*</u> 0.2
Harook, J. 370-34-3626 Complete Brake Buildup and Thermo-couple set	0.05	0.01
Cook, T. 366-44-6816 Final Pad and Shoe Inspection	< 0.01	< 0.006
Alder, I. 369-40-3369 Brake Shoe Grinder	< 0.1	< 0.006

* Time Weighted Average

Samples were taken on 25 mm cellulose ester filters and
analyzed by phase contrast optical microscopy.

8-18-86

Data Sheet
Chelsea Proving Grounds

ASBESTOS

<u>Location</u>	<u>Concentration</u> (fibers per cubic centimeter of air)
OSHA Permissible Exposure Limit (eight hour time-weighted average)	2.0
OSHA Ceiling Concentration (not to be exceeded at any time)	10.0
1) Personal air sample, D. Bauer 0557, grinding L-car linings on Ammco grinder in Brake Lab	< 0.1
eight hour time-weighted average	< 0.1
2) Personal air sample, L. Stark 4047, removing brake shoes to reset thermocouple	0.4
*eight hour time-weighted average	< 0.1

$$* E = \frac{C_a T_a + C_b T_b + \dots + C_n T_n}{\text{Total Time}}$$

E = equivalent exposure for the working shift, i.e.,
eight hour time-weighted average

C = concentration during any period of time T

T = is the duration of the exposure at the concentra-
tion C

$$\frac{(0.4)(30) + (0)(450)}{480} = \frac{12}{480} = 0.025$$

All determinations of airborne asbestos fiber concentrations were made by the Industrial Hygiene Laboratory using the membrane filter method at a magnification of 430X with phase contrast illumination.

ASBESTOS MONITORING

0.2

<0.02

CPGBRAKE.GFW

DIVISION: _____

PLANT: CHILSEA P.G.

DATE SAMPLED: 8/17/89

DEPARTMENT: 5460

ANALYSES REQUESTED: ASBESTOS

SAMPLED BY: G. FISCHER

SAMPLE DESCRIPTION

CA+ 53

GEORGE BURNS

370-36-1126

VEHICLE TEST

DEPT 5460

SUPERV: JACK GIBSON

BRAKE INSPECTION / CHANGES

SAMPLE DATA		ANALYTICAL RESULTS	
TIME	RATE/COUNT	ASB.	STD
9:07	2.7 LPM	FIBRO	0.2
2:48	2.5 LPM		
5:15	2.6 LPM		
07:48	886.6 L	<0.02	

DIVISION:

PLANT: Cleistanthus P. G.

DATE SAMPLED: 8/17/89

EXPANDING
5460

SAMPLED BY: G. FISCHER

ANALYSES REQUESTED: ASBESTOS!

ANALYSES REQUESTED: ASBESTOS			SAMPLE DESCRIPTION			ANALYTICAL RESULTS		
LINE	DATE	TIME	DESCRIPTION	DATE	TIME	ANALYTICAL RESULTS		
1	5/3	9:07	GEORGE BURNS 370-36-1126	5/3	9:07	ASB.		
2		2:48	VEHICLE TEST DEPT 5460		2:48	FIB/CC		
3			SUPERV: JACK GIBSON			0.2		
4			BRAKE INSPECTION / CHANGES			0.1		
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DATA SHEET
CHELSEA PROVING GROUND

ASBESTOS MONITORING

ASBESTOS
Fibers/cc >5 microns

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Permissible Exposure Limit 0.2

Action Level 0.1
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10/12/89 - Brake Inspection Operations

Mike Poxson, 298-58-5984
Driver/Mechanic <0.03
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The above sample was collected on an asbestos collection cassette using a calibrated MSA Model "G" pump with analysis performed at the Chrysler Industrial Hygiene Laboratory.

CPGASBBR.GWF

DIVISION: _____		PLANT: <u>CHELSEA P.G.</u>		DATE SAMPLED: <u>10/12/89</u>	
DEPARTMENT: <u>BRAKE INSPECTION</u>		ANALYSES REQUESTED: <u>ASBESTOS</u>		SAMPLED BY: <u>G. FISCHER</u>	
SAMPLE DESCRIPTION		SAMPLE DATA		ANALYTICAL RESULTS	
TIME	RATE/COUNT	TIME	RATE/COUNT	ASBESTOS	
2:13	2.3 LA	2:13	2.3 LA		
3:46	2.35 LA	3:46	2.35 LA		
1:44	2.25 LA	1:44	2.25 LA		
0:58	430 L	0:58	430 L		
CAW 54 MIKE FOXSON 248-58-5984		CAW 54 MIKE FOXSON 248-58-5984			
GLOVES DRIVER/MECH - 103 BAG, POST 14		GLOVES DRIVER/MECH - 103 BAG, POST 14			
HEPA VAC.		HEPA VAC.			
FIB/OC > 5 m. CROON		FIB/OC > 5 m. CROON			
< 0.03		< 0.03			