



STATE OF OHIO
THE INDUSTRIAL COMMISSION OF OHIO
DIVISION OF SAFETY AND HYGIENE
2325 WEST FIFTH AVENUE
P.O. BOX 1745
COLUMBUS, OHIO 43216

PLAINTIFF'S
EXHIBIT
BRK-230

PHONE (614) 466-3385

Industrial Commission
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Asst. Superintendent

August 23, 1976

Risk #SI-2647

Legal Section
Industrial Commission of Ohio
Ohio Departments Building
Columbus, Ohio 43215

Re: OD 10138-22
Eva T. Lewis

Attn: Jim Clymer
Room 223

Dear Mr. Clymer:

On May 26, 1976 an investigation was conducted at Delco-Moraine - Division of General Motors Corporation in Dayton, Ohio by Michael F. Goyda, an industrial hygienist from the Division of Safety and Hygiene. The investigation was to evaluate conditions under which the claimant had worked.

This company manufactures brake systems, transmissions, engine bearings and powered metal products.

According to information furnished by Don Abbott, the supervisor of employee benefits, the claimant's work history was as follows:

1/27/71 - 2/17/71	-	Dept. #19; assembles break shoes
2/18/71 - 2/25/72	-	Dept. #518; light assembly
2/25/72 - 4/17/72	-	sick
4/17/72 - 9/25/72	-	Dept. #518; light assembly
9/25/72 - 12/18/72	-	Dept. #19; assembles break shoes
12/18/72 - 2/5/73	-	Dept. #45
2/5/73 - 2/12/73	-	Dept. #19; assembles break shoes
2/12/73 - Present	-	Dept. #536; assembles disc breaks

It was alleged that the etching machine and impregnator in Dept. #518 were the cause of the occupational disease.

The impregnation process has been changed and it operates only about once every 3 months. This operation had been automatic and now is hand operated.

Air samples were collected at the etching operation for nitric acid, sodium hydroxide and chromates.

The air sampling equipment for sodium hydroxide consisted of a personal air sampling pump operated at 2 liters per minute and a mixed cellulose ester filter with a 37 millimeter diameter and a 0.8 micron pore size.

The air sample was collected in the employee's breathing zone and the result is listed in Table #1.

An air sample was collected for chromates using a personal sampling pump operated at 2 liters per minute and a polyvinyl chloride filter with a 37 millimeter diameter and a 5 micron pore size.

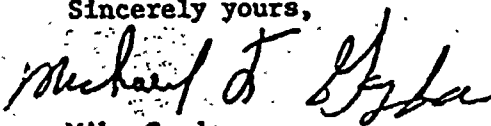
The air sample was an area sample and was negative for chromates.

An air sample was collected for nitric acid using a personal sampling pump operated at 1 liter per minute and a midget impinger containing 15 milliliters of 0.25 N NaOH.

The air sample was an area sample and the result is listed in Table #1.

A Drager Pump and Tubes were used to detect the presence of hydrochloric acid in the air. The results were negative for hydrochloric acid.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Michael J. Goyda".

Mike Goyda
Industrial Hygienist

jw

TABLE I
DELCO MORAINÉ - GMC
TEST RESULTS

INDIVIDUAL OR SITE TESTED	CONTAMINANT	CONCENTRATION DETERMINED (mg/M ³)*	ACGIH** 8-HOUR TLV***
Etching Opr. Dept. 518	Na OH	0.002 mg/M ³	2.00 mg/M ³
Etching Opr. Dept. 518	Nitric acid	0.06 mg/M ³	5.00 mg/M ³

- 1) *MILLIGRAMS PER CUBIC METER OF AIR
2) **AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
3) ***THRESHOLD LIMIT VALUE