File Code | Date: October 5, 1976

To—Name & Department		Division	Plant/Office	CIMS Number
C. Sprague	Personnel Manager	General Manufacturing	Detroit Forge & Axle Plant	440-05-
From—Name & Department		Division	Plant/Office	CIMS Number
L. Redmond	Industrial Hygiene	Employee & Indus.Relat.	Chrysler Center	417-05-

Subject: ASBESTOS DUST AND AIRBORNE PARTICULATES - DEPARTMENTS 78 AND 35

On September 9 and 10, 1976, samples were taken simultaneously with the MIOSHA industrial hygienist for comparison purposes in the two departments in the Axle Plant. In Department 78, operations were sampled to determine concentrations of airborne asbestos dust in the breathing zone of employees. Similar samples were obtained in Department 35 to measure concentrations of inert dust created by the operation of cutter grinders. The results obtained are listed on the attached data sheet.

PLAINTIFF'S EXHIBIT CHR-85

DISCUSSION

The established threshold limit value for asbestos is two fibers per cubic centimeter of air for fibers longer than five micrometers and the TLV for an inert dust is 15 milligrams of dust per cubic meter of air.

As indicated on the data sheet all of the asbestos concentrations were below two fibers per cc. The concentration at the belt sander (1.9 fibers/cc) closely approached the threshold limit value of two fibers per cc. The level measured at the belt sanders substantiates the need to continue your program of annual chest x-ray and measurement of vital capacity for all employees that grind on asbestos.

The samples obtained in Department 35 indicated that the levels of airborne dust were below one milligram per cubic meter of air. Hence, the local exhaust ventilation systems of the cutter grinders provide adequate dust control.

We presume that the MIOSHA industrial hygienists samples will also indicate adequate ventilation control in both departments.

Louis Redmond

Louis Redmond
Senior Industrial Hygienist

cc: F. M. Borawski
J. J. Hayes
N. McCallum
G. A. Sattelmeier

Attachment

PLAINTIFF'S EXHIBIT NO. CH-31

Data Sheet
Detroit Forge & Axle Plant
Asbestos Dust Concentrations

September 9 & 10, 1976

Location	Fibers per cc
Threshold Limit Value	2.00
Department 78:	
XLO Grinder 134, S. Bogel 8495	< 0.02
XLO Grinder 135, B. Jaroneski 3524	< 0.02
Belt sander & XLO Grinder 143, F. Armetta 6274	0.04
XLO Grinder 135	< 0.06
XLO Grinder 135, for fifteen minutes	0.25
XLO Grinder 134	< 0.04
XLO Grinder 134, for fifteen minutes	0.35
Belt sander	1.90
Belt sander, for fifteen minutes	0.24

The above samples were collected on cellulose ester filters utilizing MSA, Model G pumps.

Concentrations of Airborne Particulates

Location	Milligrams particulate per cubic meter of air
Threshold Limit Value	15.0
Department 35:	
Cincinnati cutter grinder #229, D.H. Goad 3237	0.8
Cutter grinders 14939 and 18527, Robert Leonard 3509	0.7

The above samples were collected on fiber glass utilizing MSA, Model G Pumps.