File Code | Date: July 27, 1978

To—Name & Department		Division	Plant/Office	CIMS Number
.. R. Normandin	Plant Manager	General Mfg.	Toledo Machining	474-00-00
From—Name & Department		**Division**	**Plant/Office**	**CIMS Number**
W. D. Watt	Industrial Hygiene	Employee & Ind. Relations	Chrysler Center	417-05-19

Subject: ASBESTOS SURVEY AT TOLEDO MACHINING

Summary

Investigation of the brake assembly operation in Department 9847 reveals that employees continue to be exposed to measurable concentrations of asbestos. Industrial Hygiene recommends that a down draft ventilated table be provided for the unloading and stacking of brake pads.

Discussion

On Tuesday, June 13, 1978, the writer investigated employee exposure to asbestos. Ralph Olson, Employment Supervisor, participated in the investigation. The investigation complies with the periodic survey required by the OSHA General Industry Standards, 29CFR 1910.1001.f.2.ii.

Department 9847

Results of the survey are similar to the previous survey of December 1977. The atmosphere in the work station of one employee was above the 8-hour permissible exposure limit during the sampling period, however, the time-weighted average concentration was within the OSHA Permissible Exposure Limit. In addition, the employee was wearing a respirator, which reduced his actual exposure considerably. Several other employees were exposed to measurable amounts of asbestos. Measurable concentrations of asbestos appear to be confined to the pad unload and stacking operation and the first two positions on the brake assembly lines.

Employees exposed to measurable amount of asbestos dust must be provided with annual physical examinations in compliance with the OSHA General Industry Standards 29CFR 1910.1001 (j). Details of the examination are contained in the Standard. The following employees should be given physical examinations:

C. Brant	SS # 284-34-7508
B. Comer	SS # 282-48-5048
M. Wagner	SS # 289-22-4742
F. W. Smith	SS # 292-32-0398

PLAINTIFF'S EXHIBIT CHR-199

Re: Asbestos Survey at Toledo Machining

T. Randall and D. Di Lucia were exposed to measurable amount of asbestos; however, they are already receiving annual asbestos physical examinations from a previous exposure (see report of January 16, 1978).

Excessive loose asbestos dust on brake pads continues to be a problem. Incoming shipments of pads should be inspected by the foreman of Department 9847 or the safety administrator, and a written record retained. This is especially important until engineering controls are provided at the unload operation. Excessively dusty shipments should be refused and returned to the vendor. Chemical Division has been reminded of the need for better cleaning and inspection of their brake pads.

Pads which are not visibly dirty are still capable of producing dust. Engineering methods are recommended to reduce airborne dust levels. It is recommended that downdraft table combined with a Work-O-Matic bin be installed for the brake pad unloading and stacking operations. This has the potential for reducing manpower and should be reviewed by Industrial Engineering. A similar system is in use for the "pad only inspection station" at Chemical Division. Plans are not available for the system, however, Chemical Division has agreed to forward a picture of the system. The downdraft table should have an exhaust volume of 2000 cfm.

A review of this report and previous reports shows that the airborne dust concentration near Mr. T. Randall are much higher than comparable concentration near other workers performing the same task on the other line or in the same location on other shifts. This suggests that Mr. Randall's work habits are partially to blame for the high concentration. All workers handling brake pads, in particular Mr. Randall, should be instructed in proper methods for handling asbestos products to avoid creating dust. If this does not result in lower dust levels at Mr. Randall's work station, he should be changed to another job to protect both his health and the health of those working near him.

Because the exposure levels are within the Permissible Exposure Limit, respirators are not required in Department 9847. However, Industrial Hygiene recommends that respirators should continue to be available for all workers involved in unloading and stacking of brakes or working in the first two brake assembly positions and their use encouraged.

R. R. Normandin III 7-27-78

Re: Asbestos Survey at Toledo Machining

Department 9854
Asbestos levels in the torque converter bonding oven area are less than the detectable limit of 0.1 fiber/cc.

No asbestos exposure was detected at the torque converter ring inspection operation.

Samples were not taken during hand standing on the torque converter ring, since the previous survey (report of January 16, 1978) indicated no exposure to asbestos dust. However, this operation does generate dust from the binder in the ring which has caused employee complaints of upper respiratory irritation. Consequently, respirators should be made available to those employees engaged in sanding the ring.

W. D. WATT

dms
Attachment

cc: F. A. Burnett
T. T. Carrol, M. D.
T. P. Duross
S. C. Enders
J. E. Harbour
E. R. Lombard
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R. D. McIntosh, M. D.
D. M. Miller
R. H. Miller
W. M. O'Brien
L. W. Perry
J. S. Pinkerton
G. A. Sattelmeier
J. L. Paczos
W. L. Pardonnet

Data Sheet
Toledo Machining
June 13, 1978

Asbestos

Location	Respiratory Equipment Worn	Concentration (fibers <5μ/cc)
OSHA PERMISSIBLE EXPOSURE LIMIT		2.0
Department 9854		
Bonding Oven Operator, M. Fabian (292-50-1822)	No	< 0.1
Bonding Oven Operator, J. Moore (277-40-9609)	No	< 0.1
Torque Convertor Inspector, P. DeMond (242-46-2888)	No	< 0.1
Department 9847 - First Shift		
West brake line-unloading and stacking brake pads, T. Randall (348-42-5444)	Yes	1.9*
West brake line-1st and 3rd position on line, C. Brant (284-34-7508)	No	0.3
West brake line-1st position on line R. Comer (282-48-5048	No	0.4
East brake line-unloading and stacking brake pads, D. DiLucia (300-50-5719)	Yes	0.4
Department 9847-2nd shift		
West brake line-unloading and stacking brake pads, M. Wagner (289-22-4742)	Yes	0.5
West brake line-1st position on line F. W. Smith (293-32-0398)	Yes	1.3

* T. Randall's exposure was calculated from a 1½ hour work period and extrapolated to an 8-hour day, based on the writer's estimate that he is at the work station for approximately 4½ hours out of the 8-hour workday.i.e., 3.4 fibers/cc x 9/16 = 1.9. It is also the writer's opinion that this sample was contaminated.

Samples were collected on cellulose ester filters and counted using phase contrast microscopy.