FILE NAME: Ford (FD)

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Inter Office

Personnel and Organization Staff

August 3, 1973

To Messrs. L. H. Albrant
J. H. Barton
C. E. Brace
R. D. Byrom
A. W. Carpenter
J. C. Childers
C. E. Delbert
D. B. Dishon
N. S. Green
W. L. Hall
J. A. Keller
T. L. Kopke
F. C. Manning
R. J. Manthey
W. J. Piccolo
C. M. Wareham

Subject: Vehicle Brake Rebuilding

Recent industrial hygiene studies have demonstrated overexposure to asbestos fiber in air during certain vehicle brake rebuilding and inspection operations. Overexposure occurred when brakes and brake drums were cleaned using compressed air blowoff. In order to preclude overexposure to asbestos fiber in air, the following procedure is recommended:

- Vehicle brakes and brake drums shall be cleaned using an industrial type vacuum cleaner with a filtering system efficient to a three micron particle size. Under no circumstances shall compressed air blowoff be used to clean brakes and brake drums.

- Disposal of asbestos laden dust from the vacuum shall be done by wet methods of dust suppression or the employe performing the operation shall use a respirator specified by the U.S. Bureau of Mines for pneumoconiosis producing dust under approvals 21C and Schedule 21. Approval 21C specifies single use respirators approved for pneumoconiosis producing dusts.

- Disposal of asbestos laden waste from the vacuum cleaner shall be in sealed containers labeled per subparagraph g and h, Federal Register 1910.93(a), pages 22143 and 22144 (OSHA).

Paul E. Toth

Paul E. Toth, Supervisor
Industrial Hygiene Section

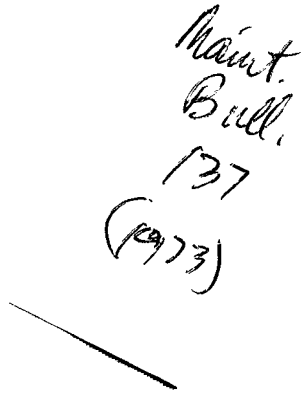
cc: D. L. Block, M.D.
R. F. Birdsall
F. J. Dery
D. A. Greschaw
R. L. Wubeke

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EXHIBIT
15 Rosinski
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The sticky note shown below was written by Barry Castleman and attached to the page immediately following this one along the right margin at the spot marked on the next page with an X



Plant Engineering Office
Manufacturing Staff

Maintenance Bulletin

Subject	Number
EXPOSURE TO ASBESTOS FIBER INHALATION DURING BRAKE AND CLUTCH INSPECTION AND REBUILDING	137

Asbestos is a constituent of most commonly used friction materials used for brakes and clutches. Overexposure to asbestos fiber in the air can occur during inspection and repair operations on brakes, brake drums, clutches, and associated components of these units when compressed air is used to blow off asbestos laden dust.

In order to preclude overexposure by inhalation of asbestos fiber during inspection and repair operations on vehicles, presses, and cranes the following procedure is recommended by the Industrial Hygiene Section of the Personnel and Organization Staff:

- Brakes, brake drums, clutches, and other associated components shall be cleaned using an industrial type vacuum cleaner with a filter system efficiency capable of capturing a three (3) micron particle size. The Industrial Hygiene Section has evaluated and found acceptable from the asbestos fiber emission standpoint the Sears Roebuck and Company, Catalog #9HT17811N, forty-five (45) gallon industrial vacuum cleaner for wet or dry pickup. Accessory set, Catalog #9G116973, consisting of crevice tool and brush must be used to afford proper pickup. Current (1973) cost of this unit complete with accessory set is approximately $105.00.

- Disposal of asbestos laden waste from the vacuum cleaner shall be done by wet methods of dust suppression or by an employe performing such removal using a respirator specified by the U.S. Bureau of Mines for pneumoconiosis producing dusts under Approvals 21C and Schedule 21. The Minnesota Mining and Manufacturing Company respirator, Model 8710, meets these requirements.

- Disposal of asbestos laden waste from the vacuum cleaner shall be in sealed containers labeled as per subparagraphs (g) and (h), Federal Register 1910.93(a), pages 22143 and 22144 (OSHA). The filters on the discharge ports should also be disposed of when they become loaded rather than attempting to clean them. These filters should be disposed of in properly labeled sealed containers.

- Under no circumstances shall compressed air blowoff be used to clean brakes, brake drums, clutches and associated components.

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Aug. 1, 1973

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