FILE NAME: Caterpillar (CAT)

DATE: 1976 July 9

DOC#: CAT025

DOCUMENT DESCRIPTION: Memo - Industrial Hygiene Sampling and Evaluation of Asbestos (Some Parts Redacted)

CATERPILLAR TRACTOR CO.

PEORIA

PLANT OR OFFICE	DEPARTMENT	ATTENTION	
☐ DESTROY	FILE UNTIL (DATE)		

DATE July 9, 1976

PLANT OR OFFICE Bettendorf

DEPT. Administrative

ATTN. W. Bracken

cc: G.W.Grawey,M.D.
R.E.Kinser
W.C.McCabe, M.D.
R.L.Turner

C O N F I D E N T I A L

SUBJECT: Industrial Hygiene Sampling and Evaluation of Asbestos, [redacted]

On May 28, 1976 an industrial hygiene review of Bettendorf operations was conducted. Asbestos exposure from gasket removal, [redacted] were evaluated.

Personal sampling was used to measure employee exposure to airborne asbestos fiber from glove box abrasive blasting of parts containing residual asbestos gasket material. While the operation was enclosed, there was evidence of leaks in the glove box (27M174). Also there is some potential for asbestos fiber exposure when opening the glove box doors for removal of parts. Additional sampling was performed at a burr bench operation (B-Washer Detailing Area) where an employee uses a motor-driven wire brush to remove gasket material. A local exhaust system was present, but gasket removal operations were outside of an effective capture range of the hood. Also the exhaust system was inoperable at the time of the review. There was a considerable amount of loose asbestos fiber on the employee's clothes and workbench. Contaminated clothing worn home can result in asbestos exposure of members of the employee's family. Circumstances such as this must be prevented.

AIRBORNE ASBESTOS FIBER LEVELS

Location	Operation	Employee	Duration of Sampling (min.)	Fibers/c.c.(TWA)
Disassembly area(27M174)	Glove Box Abrasive Blasting	M.Eberhardt	308	0.4
Burr Bench B-Washer Detailing Area	Wire Brushing	D.Hamann	302	0.03

PLAINTIFF'S EXHIBIT 1110

61-696-80505-2

CAT-1030513

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The current exposure limit (8-hour TWA) for airborne asbestos fiber is 2 fibers/c.c. The measured exposures were within this limit. The exposure results of M. Eberhardt would have more significance if the proposed OSHA limit of 0.5 fiber/c.c is adopted.

All residual asbestos gasket material must be disposed of in closed, impermeable containers, and not handled as ordinary trash. The drums of spent shot containing asbestos material should be clearly marked as indicated in OSHA 1910.1001 (g)(2)(ii). The exposed employees must be included in a regular program of medical examinations. Medical records and monitoring data must be retained for at least 20 years. These operations should be resampled at six month intervals. If a significant change in operation occurs, personal exposure samples should be taken as soon as practicable.

REDACTED

July 9, 1976

W. Bracken

REDACTED

Call if there are any questions. Your response to this review would be appreciated.

RTGies R.T. Gies
Industrial Hygiene Engineer
Ext. 5462
jw

attach.