PLAINTIFF'S EXHIBIT
FD-1418

Inter Office

Personnel and Organization Staff

November 12, 1980

R. E. Bisaro, Manager
Certification Testing Department
Environmental and Safety Engineering Staff

cc R. W. Fisher
J. A. Keller
S. P. Pant, M.D.

Subject: Industrial Hygiene ~~Asbestos~~ Study

As requested by D. A. Ware, an industrial hygiene study was conducted on October 8, 1980 to evaluate employe exposure to airborne asbestos during the emissions certification test of the 1982 Thunderbird powertrain.

Employe exposure to airborne asbestos originates from compressed air directed at the rear brakes of the test cars to reduce brake fade during certification testing. A short duration dust cloud is visible for less than 20 seconds at the beginning of the test. The test cell is provided with general exhaust and dilution ventilation.

The present OSHA and MIOSHA Time-Weighted Average Exposure (TWAE) limits and action levels for employe exposure to airborne asbestos are 2 and 0.1 fibers per cubic centimeter of air, respectively. As can be seen from the attached data sheet, the results of the air samples taken are well below the OSHA and MIOSHA TWAE's and action levels for airborne asbestos.

H. B. Lick

H. B. Lick
Senior Industrial Hygienist
Industrial Hygiene and Toxicology Dept.
Employe Health Services

Attachment
cc

INDUSTRIAL HYGIENE SERVICES SECTION
INDUSTRIAL HYGIENE AND TOXICOLOGY DEPARTMENT
EMPLOYE HEALTH SERVICES

ENVIRONMENTAL SAFETY AND ENGINEERING STAFF
October 8, 1980

Emissions Laboratory -- Department No. K-447 Test Cell 10

PERMISSIBLE OCCUPATIONAL EXPOSURE LIMITS FOR AIRBORNE CONTAMINANTS

(f/cc = fibers per cubic centimeter of air)

Contaminant	8-Hour Time Weighted Average Exposure Limit	Short Term Exposure Limit	Medical Monitoring Action Level
Asbestos	2 f/cc	10 f/cc	0.1 f/cc

RESULTS

Location and Condition	Airborne Asbestos Concentration
1. Thunderbird Emission Test, Test Technician (TWAE) J. J. Cusumano, S.S. Number 380-50-1253 Employe Breathing Zone Air Sample (B.Z.)	0.05
2. General Area Sample; Right rear of test cell	0.05
3. General Area Sample; Left rear of test cell	0.05

DATA RETRIEVAL NUMBERS: HBL 1044-1046

INSTRUMENTATION AND ANALYSIS: Bendix BDX pumps with Milipore Type AA Membrane Filters. Fibers counted using 430X Phase Contrast Microscopy

ANALYST: L. Latorre, Senior Industrial Hygienist

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