

ASBESTOS BULK SAMPLE COLLECTION & ANALYSIS

FOR THE PROPERTY AT:

13400 Outer Drive
Detroit, MI 48239

ETC Job #:

274134

Prepared For:

Detroit Diesel Corporation
13400 West Outer Drive
Detroit, MI 48239
313-592-7086

Date of Inspection: 11/15/2024

Date of Report: 11/20/2024

Report Prepared and Submitted By:



Curtis DeBellefeuille

Michigan Asbestos Inspector License #: A53590

Inspector's E-Mail: Curtis.DeBellefeuille@2etc.com



38900 West Huron River Drive
Romulus, MI 48174
734-955-6600
www.2etc.com

Dear Michele Buckler:

As per your request, Environmental Testing & Consulting, Inc. (ETC) collected bulk samples. These samples were collected from Detroit Diesel Corporation (Office Space) located at 13400 West Outer Drive, Detroit, MI 48239.

ETC attempted to take samples that were representative of the entire substance in question. It is standard industry practice to take a minimum of three (3) samples of each type of material in question, this practice was followed unless specifically not needed.

All bulk samples were analyzed using Polarized Light Microscopy (PLM). This is the method of choice recognized by the Environmental Protection Agency (EPA). The PLM method serves several functions: 1) its main purpose is to identify fibrous asbestos in bulk samples and 2) it is used to distinguish between the various types of asbestos within the sample.

When an asbestos bulk sample is received in the laboratory, several representative portions of the sample is removed and put into a labeled petri dish. The sample parts are then extracted using forceps. These extracted fibers are then placed on a microscopy slide and mounted using a liquid of similar refractive indices.

After mounting, the fibers are identified using PLM, supplemented by dispersion staining. After fiber identification, estimation is made as to the percentage of asbestos. The estimated percentages are based on size, number, shape, density of each of the components, and on comparison to a standard set of samples previously quantitated by the interim Research Triangle Institute (RTI) method.

Summary of Results

The results of this sampling are compiled on the enclosed table(s) found at the end of this report.

- **No asbestos was detected**

The EPA limit for asbestos content is greater than one (1) percent. Any samples containing more than one (1) percent asbestos are considered to be asbestos-containing materials (ACM), however, any samples containing one (1) percent or less asbestos are not ACM. **Please note that according to EPA protocol any results below ten (10) percent asbestos content should be point counted. For this reason, any results reported as less than ten (10) percent should be considered preliminary only and should be point counted.**

Thank you for selecting ETC. It has been a pleasure working with you. Further environmental services are available upon request. If you have any questions regarding this report, please feel free to contact me at (734) 955-6600.



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Romulus, MI 48174
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**ENVIRONMENTAL TESTING
LABORATORIES, INC.**

37575 W HURON RIVER DRIVE
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

To: Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

ETL Job: 274134
Client Project: 274134

Attention: Michele Buckler
Project Location: 13400 W. Outer Dr., Detroit, MI 48239
Detroit Diesel

Lab Sample Number	Client Sample Number	Sample Type	Completed
1721753	001A	Asbestos	11/15/2024
1721754	001B	Asbestos	11/15/2024
1721755	001C	Asbestos	11/15/2024
1721756	002A	Asbestos	11/15/2024
1721757	002B	Asbestos	11/15/2024
1721758	002C	Asbestos	11/15/2024

Reviewed by:

Dawson Bradley

Summary

Method	Sample	Layer	Mastic
PLM	6		

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

ETL Job : 274134
Client Project : 274134
Date Collected : 11/15/2024
Date Received : 11/15/2024

Location : 13400 W. Outer Dr., Detroit, MI 48239
 Detroit Diesel

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1721753 001A Detroit Deisel Office Space Layer-1 Analyst: Chris Canilao Date Analyzed : 11/15/2024	Ceiling / Tile - White - HA(1)	White Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
1721754 001B Detroit Deisel Office Space Layer-1 Analyst: Chris Canilao Date Analyzed : 11/15/2024	Ceiling / Tile - White - HA(1)	White Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
1721755 001C Detroit Deisel Office Space Layer-1 Analyst: Chris Canilao Date Analyzed : 11/15/2024	Ceiling / Tile - White - HA(1)	White Fibrous Homogenous	PLM 98% Cellulose	PLM 2% Other	PLM None Detected
1721756 002A Detroit Deisel Office Space Layer-1 Analyst: Chris Canilao Date Analyzed : 11/15/2024	Ceiling / Glue Pod - Brown - HA(2)	Brown Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1721757 002B Detroit Deisel Office Space Layer-1 Analyst: Chris Canilao Date Analyzed : 11/15/2024	Ceiling / Glue Pod - Brown - HA(2)	Brown Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1721758 002C Detroit Deisel Office Space Layer-1 Analyst: Chris Canilao Date Analyzed : 11/15/2024	Ceiling / Glue Pod - Brown - HA(2)	Brown Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested. An estimate of uncertainty can be provided at the client's request.



Certificate of Analysis

Environmental Testing Laboratories, Inc.
37575 W Huron River Drive
Romulus, Michigan 48174
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Location : 13400 W. Outer Dr., Detroit, MI 48239
Detroit Diesel

ETL Job : 274134
Client Project : 274134
Date Collected : 11/15/2024
Date Received : 11/15/2024

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
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Emily Schwoder

Lab Supervisor/Other Signatory

Analyst:

Chris Canilao

Chris Canilao

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")
Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples
Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples
EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials
EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples
A % Asbestos result of "Trace" indicates that the analyzed material was found to contain less than 1% asbestos and would not be considered an Asbestos Containing Material (ACM).

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Electronic Chain of Custody

Environmental Testing Laboratories, Inc.



37575 W Huron River Drive
Romulus, Michigan 48174
(734) 955-6600, Fax: (734) 955-6604

Submitting Client: Detroit Diesel Corporation
13400 W. Outer Drive
Detroit, MI - 48239

Sample Type: Asbestos-Bulk

Turn Around: 72 Hours

Positive Stop: No

Point Counting: No

P.C. Criteria:

Project Location: 13400 W. Outer Dr., Detroit, MI 48239

ETL Project : 274134

Sample ID	Client Sample ID	Sample Location	Sample Description	Collection Date
1721753	001A	Detroit Deisel Office Space	Ceiling / Tile - White - HA(1)	2024-11-15
1721754	001B	Detroit Deisel Office Space	Ceiling / Tile - White - HA(1)	2024-11-15
1721755	001C	Detroit Deisel Office Space	Ceiling / Tile - White - HA(1)	2024-11-15
1721756	002A	Detroit Deisel Office Space	Ceiling / Glue Pod - Brown - HA(2)	2024-11-15
1721757	002B	Detroit Deisel Office Space	Ceiling / Glue Pod - Brown - HA(2)	2024-11-15
1721758	002C	Detroit Deisel Office Space	Ceiling / Glue Pod - Brown - HA(2)	2024-11-15

Seal Intact: Yes

Preservative (if required): Yes

Containers Labeled : Yes

Analyst

Relinquished By: Curt DeBellefeuille

Relinquished Date: Nov 15 2024 1:40PM

Received By: Bella Rossi

Received Date: 2024-11-15 02:51 PM

Chris Canilao

Material List



Client : Detroit Diesel Corporation
13400 W. Outer Drive
Detroit, MI - 48239

Project Location: 13400 w outer Dr Detroit MI

Job #:274134

Material Id	Material Description	Material Sub	Classification	Size	Quantity	Locations
1	Ceiling/Tile-White	Tile	M		500 SF	
2	Ceiling/Glue Pod-Brown	Glue Pod	M		500 SF	