

Trace Analysis Laboratory, Inc.

3423 Investment Boulevard, #8 • Hayward, California 94545

Telephone (415) 783-6960

Facsimile (415) 783-1512



February 15, 1991

Richard Faber
Helmut Motors
82 "A" Street
Hayward, CA 94541

Dear Mr. Faber:

Trace Analysis Laboratory received one soil sample on January 29, 1991, for your Project: Helmut Motors (our custody Log Number 9558).

These samples were analyzed for the tests as indicated on the chain of custody. Our analytical report and a copy of the completed chain of custody form are enclosed for your review.

If you should have any questions or require additional information, please call me.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Gerald H. Nieder-Westermann', written over a horizontal line.

Gerald H. Nieder-Westermann
Project Specialist

GNW:gnw

Enclosures

Trace Analysis Laboratory, Inc.

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LOG NO.: 9558
DATE SAMPLED: 1/29/91
DATE RECEIVED: 1/29/91
DATE EXTRACTED: 1/30/91
DATE ANALYZED: 2/12/91
DATE REPORTED: 2/15/91

CUSTOMER: Helmut Motors
REQUESTER: Richard Faber
PROJECT: Helmut Motors

Method and Constituent	Units	Sample Type: Soil		Method Blank	
		Concentration	Reporting Limit	Concentration	Reporting Limit
Modified EPA Method 8020:					
Benzene	ug/kg	ND	5	ND	5
Toluene	ug/kg	ND	5	ND	5
Xylenes	ug/kg	ND	20	ND	20
Ethylbenzene	ug/kg	ND	5	ND	5

QC Summary:

% Recovery: 122
% RPD: 2.5

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NO.: 9558
DATE SAMPLED: 1/29/91
DATE RECEIVED: 1/29/91
DATE EXTRACTED: 2/12/91
DATE ANALYZED: 2/14/91
DATE REPORTED: 2/15/91
PAGE: Two

Sample Type: Soil

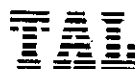
Method and
Constituent

<u>Units</u>	<u>Concentration</u>	<u>Reporting Limit</u>
		7
Standard Method 5520B, Hydrocarbons: Oil and Grease	ug/kg	ND 50,000

QC Summary:

% Recovery: 71.0 %
% RPD: 6.0 %

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NO.: 9558
 DATE SAMPLED: 1/29/91
 DATE RECEIVED: 1/29/91
 DATE EXTRACTED: 1/30/91, 2/01/91,
 DATE ANALYZED: 2/07/91 and 2/08/91,
 DATE REPORTED: 2/15/91
 PAGE: Three

Sample Type: Toxicity Characteristic
 Leaching Procedure
 Extract of Soil

Method and Constituent:	Units	7		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 7061: Arsenic	ug/l	3.4	0.9	ND	0.9	76.1	5.4
EPA Method 7061: Arsenic, recovery corrected	ug/l	4.5					
EPA Method 7080: Barium	ug/l	ND	2,000	ND	2,000	104	7.7
EPA Method 7130: Cadmium	ug/l	ND	20	ND	20	96.4	3.3
EPA Method 7190: Chromium	ug/l	ND	40	ND	40	77.0	6.7

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NO.: 9558
 DATE SAMPLED: 1/29/91
 DATE RECEIVED: 1/29/91
 DATE EXTRACTED: 1/30/91, 2/01/91,
 2/05/91 and 2/07/91
 DATE ANALYZED: 2/04/91, 2/07/91,
 and 2/08/91
 DATE REPORTED: 2/15/91
 PAGE: Four

Sample Type: Toxicity Characteristic
 Leaching Procedure
 Extract of Soil

Method and Constituent:	Units	7		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 7420: Lead	ug/l	ND	100	ND	100	106	0.94
EPA Method 7471: Mercury	ug/l	ND	0.1	ND	0.1	84.6	12
EPA Method 7741: Selenium	ug/l	ND	8	ND	8	79.3	9.8
EPA Method 7760: Silver	ug/l	140	80	ND	80	109	7.3
EPA Method 7760: Silver, recovery corrected	ug/l	130					

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NO.: 9558
 DATE SAMPLED: 1/29/91
 DATE RECEIVED: 1/29/91
 DATE EXTRACTED: 1/30/91 and 2/01/91
 DATE ANALYZED: 2/07/91
 DATE REPORTED: 2/15/91
 PAGE: Five

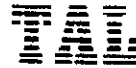
Sample Type: Waste Extraction Test
 Extract of Soil

Method and Constituent:	Units	7		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 7420:					
Lead	ug/l	ND	100	ND	100

QC Summary:

% Recovery: 101
 % RPD: 1.7

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NO.: 9558
DATE SAMPLED: 1/29/91
DATE RECEIVED: 1/29/91
DATE ANALYZED: 2/05/91
DATE REPORTED: 2/15/91
PAGE: Six

Sample Type: Soil

Method and
Constituent:

EPA Method 1010:

Flashpoint

Units

°F

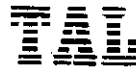
Concen-
tration

> 150

Reporting
Limit

150

7



LOG NO.: 9558
DATE SAMPLED: 1/29/91
DATE RECEIVED: 1/29/91
DATE ANALYZED: 1/30/91
DATE REPORTED: 2/15/91
PAGE: Seven

Sample Type: Soil

Method and
Constituent:

EPA Method 150.1:

pH

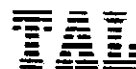
Units

pH

7
Reporting
Limit

7.3

+/- 0.1



LOG NO.: 9558
DATE SAMPLED: 1/29/91
DATE RECEIVED: 1/29/91
DATE ANALYZED: 2/06/91
DATE REPORTED: 2/15/91
PAGE: Eight

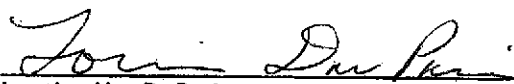
Sample Type: Soil

7

Method and
Constituent:

Reactivity in Water, Acid
and Base

100 ml of de-ionized water was added to three beakers. The pH was adjusted to test acid reactivity (pH 2), base reactivity (pH 14) and water reactivity (pH 7). After the the temperature stabilized 5.0 grams of sample was added to each beaker. The initial and final temperature was recorded over a 5 minute span. There was no temperature change. Furthermore, no bubbling or color change was detectable. The sample showed no reactivity for water, acid, or base.


Louis W. DuPuis
Quality Assurance/Quality Control Manager