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**APPENDIX E**  
**LABORATORY ANALYTICAL RESULTS**

**ANALYTICAL REPORT**

EBA ENG CONSULTANTS LTD  
ATTN: S. TAYLOR  
14940 123 AVE NORTH BLDG  
EDMONTON AB T5V 1B4

DATE: 27-AUG-03 02:22 PM

Revision: 2

Lab Work Order #: L125248

Sampled By: S.TAYLOR

Date Received: 15-AUG-03

P.O. #:

Job #: BOSTON CAMP

Comments:

APPROVED BY: 

KAREN HUEBNER

Project Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.  
ANY REMAINING SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU  
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

**LABORATORY ACCREDITATIONS:**

- STANDARDS COUNCIL OF CANADA IN COOPERATION WITH THE CANADIAN ASSOCIATION FOR ENVIRONMENTAL ANALYTICAL LABORATORIES (CAEAL) FOR SPECIFIC TESTS AS REGISTERED BY THE COUNCIL (EDMONTON, CALGARY, GRANDE PRAIRIE, SASKATOON, WINNIPEG, THUNDER BAY, WATERLOO)
- AMERICAN INDUSTRIAL HYGIENE ASSOCIATION (AIHA) IN THE INDUSTRIAL HYGIENE PROGRAM (EDMONTON, WINNIPEG)
- STANDARDS COUNCIL OF CANADA IN COOPERATION WITH THE CANADIAN FOOD INSPECTION AGENCY (CFIA) FOR FERTILIZER AND FEED TESTING (SASKATOON) AND FOR MICROBIOLOGICAL TESTING IN FOOD (WINNIPEG)

**LABORATORY RECOGNITIONS:**

- STANDARDS COUNCIL OF CANADA - GLP COMPLIANT FACILITY (EDMONTON, OTTAWA)

9936 - 67 Avenue, Edmonton, Alberta T6E 0P5, Tel. (780) 413-5227, Fax (780) 437-2311  
Canada Wide Tel. 1-800-668-9878 [www.envirotest.com](http://www.envirotest.com)

(Edmonton, Calgary, Grande Prairie, Saskatoon, Winnipeg, Thunder Bay, Ottawa, Waterloo, Montreal)

RECEIVED  
SEP 4 - 2003



## Reference Information

### Methods Listed (if applicable):

| ETL Test Code                   | Matrix  | Test Description      | Preparation Method Reference(Based On) | Analytical Method Reference(Based On) |
|---------------------------------|---------|-----------------------|----------------------------------------|---------------------------------------|
| BTX,TVH-ED                      | Water   | BTEX and TVH (C5-C10) | EPA 5030                               | EPA 5030/8015&8260-P&T GC-MS & FID    |
| TVH includes BTEX contribution. |         |                       |                                        |                                       |
| TEH-ED                          | Water   | TEH (C11-C30)         |                                        | EPA 3510/8000-GC-FID                  |
| TEH-ED                          | Product | TEH (C11-C30)         |                                        | EPA 3580/8000-GC-FID                  |

\*\* Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

### Chain of Custody numbers:

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

| Laboratory Definition Code | Laboratory Location                                  | Laboratory Definition Code | Laboratory Location |
|----------------------------|------------------------------------------------------|----------------------------|---------------------|
| ED                         | Enviro-Test Laboratories - Edmonton, Alberta, Canada |                            |                     |

### GLOSSARY OF REPORT TERMS

*Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.*

*The reported surrogate recovery value provides a measure of method efficiency. The Laboratory warning units are determined under column heading D.L.*

*mg/kg (units) - unit of concentration based on mass, parts per million*

*mg/L (units) - unit of concentration based on volume, parts per million*

*< - Less than*

*D.L. - Detection Limit*

*N/A - Result not available. Refer to qualifier code and definition for explanation*

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.*

*Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.*

*Enviro-Test Laboratories has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, Enviro-Test Laboratories assumes no liability for the use or interpretation of the results.*

## ENVIRO-TEST QC REPORT

Workorder: L125248

Client: EBA ENG CONSULTANTS LTD  
14940 123 AVE NORTH BLDG  
EDMONTON AB T5V 1B4

Contact: S. TAYLOR

| Test              | Matrix  | Reference    | Result  | Qualifier | Units | RPD | Limit  | Analyzed  |
|-------------------|---------|--------------|---------|-----------|-------|-----|--------|-----------|
| <u>BTX,TVH-ED</u> |         | <u>Water</u> |         |           |       |     |        |           |
| Batch             | R138147 |              |         |           |       |     |        |           |
| WG132873-2        | LCS     |              |         |           |       |     |        |           |
| Benzene           |         |              | 122     |           | %     |     | 71-125 | 18-AUG-03 |
| Ethylbenzene      |         |              | 115     | H         | %     |     | 72-115 | 18-AUG-03 |
| Toluene           |         |              | 124     |           | %     |     | 68-130 | 18-AUG-03 |
| Total Volatiles   |         |              | 109     |           | %     |     | 61-134 | 18-AUG-03 |
| Xylenes           |         |              | 118     |           | %     |     | 76-123 | 18-AUG-03 |
| WG132873-1        | MB      |              |         |           |       |     |        |           |
| Benzene           |         |              | <0.0005 |           | mg/L  |     | 0.0005 | 18-AUG-03 |
| Ethylbenzene      |         |              | <0.0005 |           | mg/L  |     | 0.0005 | 18-AUG-03 |
| Toluene           |         |              | <0.0005 |           | mg/L  |     | 0.0005 | 18-AUG-03 |
| Total Volatiles   |         |              | <0.1    |           | mg/L  |     | 0.1    | 18-AUG-03 |
| Xylenes           |         |              | <0.0005 |           | mg/L  |     | 0.0005 | 18-AUG-03 |
| <u>TEH-ED</u>     |         | <u>Water</u> |         |           |       |     |        |           |
| Batch             | R138186 |              |         |           |       |     |        |           |
| WG132932-2        | LCS     |              |         |           |       |     |        |           |
| TEH (C11-C30)     |         |              | 114     |           | %     |     | 67-130 | 15-AUG-03 |
| WG132932-1        | MB      |              |         |           |       |     |        |           |
| TEH (C11-C30)     |         |              | <0.05   |           | mg/L  |     | 0.05   | 15-AUG-03 |

Product - Batch and Sample Number Relations:

|            |    |           |           |           |           |
|------------|----|-----------|-----------|-----------|-----------|
| BTX,TVH-ED | 1  |           |           |           |           |
| R138147    |    | L125248-1 | L125248-2 | L125248-3 | L125248-4 |
| TEH-ED     | 1  |           |           |           |           |
| R138186    |    | L125248-1 | L125248-2 | L125248-3 | L125248-4 |
| TEH-ED     | 15 |           |           |           |           |
| R138181    |    | L125248-3 |           |           |           |
| TEH-ED     | 15 |           |           |           |           |
| R138186    |    | L125248-1 |           |           |           |

Workorder # L125248

## Legend:

|       |                                                                                    |
|-------|------------------------------------------------------------------------------------|
| Limit | 95% Confidence Interval (Laboratory Warning Limits)                                |
| DUP   | Duplicate                                                                          |
| RPD   | Relative Percent Difference ((higher result-lower result)/Average, expressed as %) |
| N/A   | Not Available                                                                      |
| LCS   | Laboratory Control Sample                                                          |
| SRM   | Standard Reference Materials                                                       |
| MS    | Matrix Spike                                                                       |
| MSD   | Matrix Spike Duplicate                                                             |
| ADE   | Average Desorption Efficiency                                                      |
| MB    | Method Blank                                                                       |
| IRM   | Internal Reference Material                                                        |
| CRM   | Certified Reference Material                                                       |

## Qualifier:

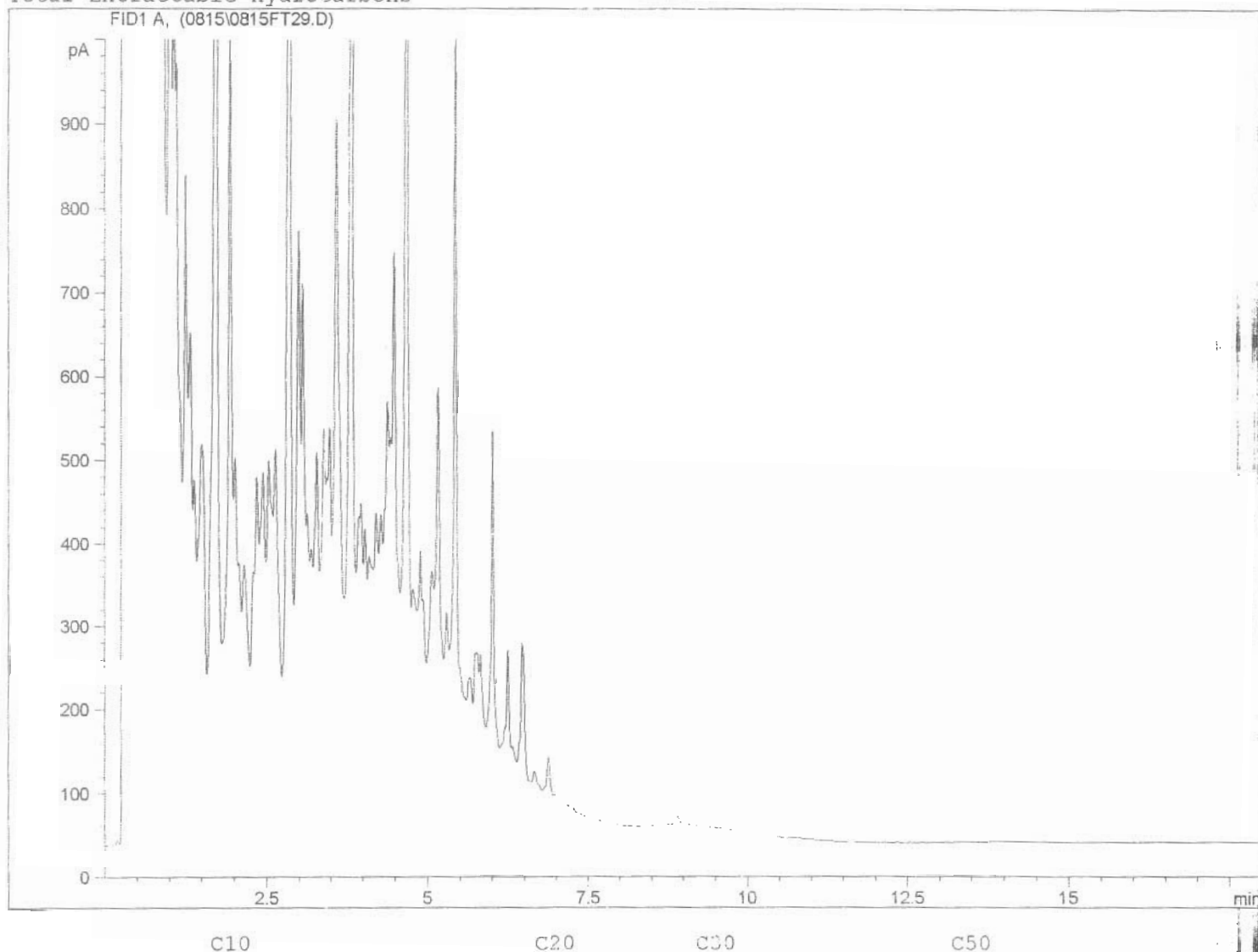
|        |                                                                                                                                                                       |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit.                                                                           |
| A      | Method blank exceeds acceptance limit. Blank correction not applied, unless the qualifier "RAMB" (result adjusted for method blank) appears in the Analytical Report. |
| B      | Method blank result exceeds acceptance limit, however, it is less than 5% of sample concentration. Blank correction not applied.                                      |
| E      | Matrix spike recovery may fall outside the acceptance limits due to high sample background.                                                                           |
| F      | Silver recovery low, likely due to elevated chloride levels in sample.                                                                                                |
| G      | Outlier - No assignable cause for nonconformity has been determined.                                                                                                  |
| H      | Result falls within the 99% Confidence Interval (Laboratory Control Limits)                                                                                           |
| J      | Duplicate results and limit(s) are expressed in terms of absolute difference.                                                                                         |
| K      | The sample referenced above is of a non-standard matrix type; standard QC acceptance criteria may not be achievable.                                                  |

Client ID: WT 3:30 BEFORE

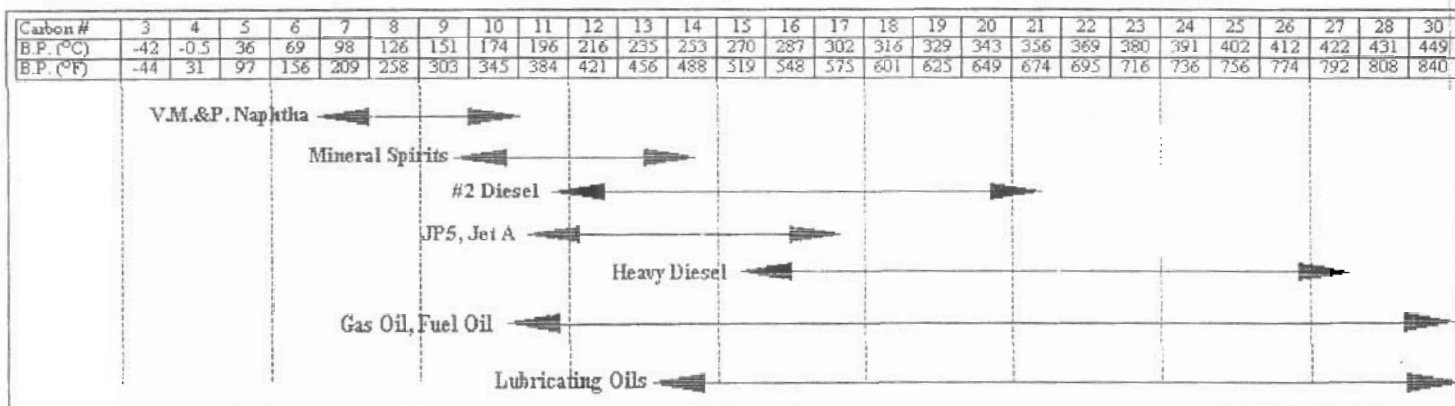


Sample ID: L125248-1 100  
Injection Date: 8/16/03 1:45:54 AM  
Instrument ID: Instrument B

Total Extractable Hydrocarbons



Boiling Point Distribution Range of Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hyrdocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

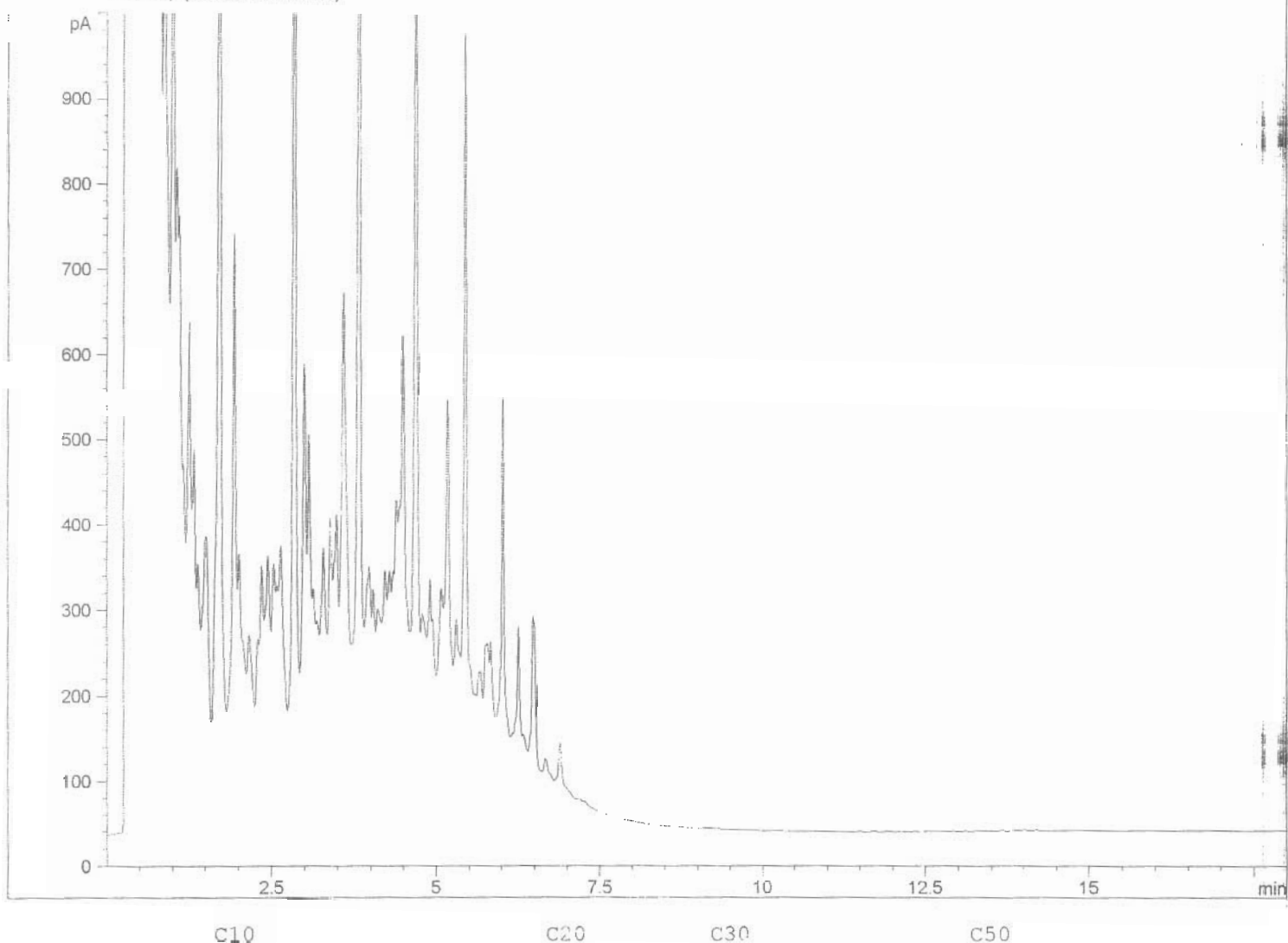
Client ID: WT 5:00 BEFORE



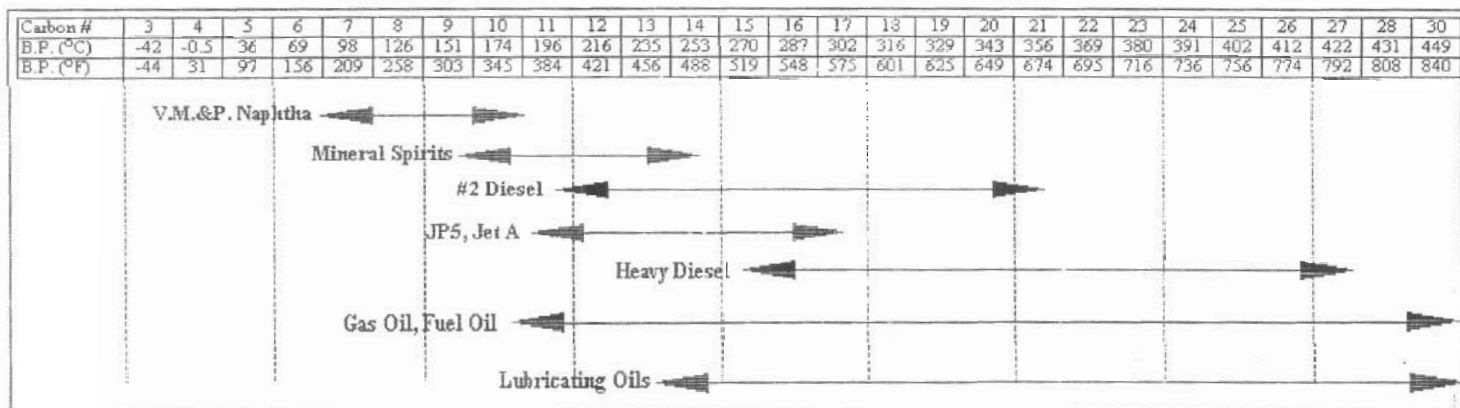
Sample ID: L125248-3 100  
Injection Date: 8/15/03 11:07:27 PM  
Instrument ID: Instrument B

# Total Extractable Hydrocarbons

FID1 A, (0815\0815FT23.D)



## Boiling Point Distribution Range of Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hyrdocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII

[illegible]

**ANALYTICAL REPORT**

EBA ENG CONSULTANTS LTD  
ATTN: STEVE TAYLOR  
14940 123 AVE NORTH BLDG  
EDMONTON AB T5V 1B4

DATE: 05-SEP-03 05:04 PM

Lab Work Order #: L128027

Sampled By: CLIENT

Date Received: 02-SEP-03

P.O. #: NA

Job #: 1740065

Comments: 05-Sep-03

Analyses canceled for L128027-3 and -5 due to greater than 50% free product. Analyses for L128027-7 canceled due to high free product and sample had emulsified.

Sample Specific Comments: L128027-1: BTEX data revised.,

APPROVED BY:

  
for TONY CIARLA

Project Manager

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Bay 7, 1313 - 44 Avenue N.E., Calgary, Alberta T2E 6L5, Tel. (403) 291-9897, Fax (403) 291-0298  
Canada Wide Tel. 1-800-668-9878 [www.envirotest.com](http://www.envirotest.com)

(Edmonton, Calgary, Grande Prairie, Saskatoon, Winnipeg, Thunder Bay, Ottawa, Waterloo, Montreal)

# **ENVIRO-TEST ANALYTICAL REPORT**

| Sample Details/Parameters                                                                                                                                                                                                                                                  | Result  | Qualifier | D.L.   | Units | Extracted | Analyzed  | By  | Batch   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|--------|-------|-----------|-----------|-----|---------|
| L128027-1      AUG 28/03 11:00AM BEFORE<br>Sample Date: 29-AUG-03<br>Matrix:        WATER<br><b>BTEX, TVH and TEH</b><br>TEH (C11-C30)<br><b>BTEX and TVH (C5-C10)</b><br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes<br>Total Volatiles<br><br>Note: BTEX data revised. | 270     |           | 0.05   | mg/L  | 03-SEP-03 | 03-SEP-03 | OAL | R141337 |
|                                                                                                                                                                                                                                                                            | 0.64    |           | 0.0005 | mg/L  | 03-SEP-03 | 03-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | 3.1     |           | 0.0005 | mg/L  | 03-SEP-03 | 03-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | 0.50    |           | 0.0005 | mg/L  | 03-SEP-03 | 03-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | 2.9     |           | 0.0005 | mg/L  | 03-SEP-03 | 03-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | 44      |           | 0.1    | mg/L  | 03-SEP-03 | 03-SEP-03 | MMY | R141405 |
| L128027-2      AUG 28/03 11:00AM AFTER<br>Sample Date: 29-AUG-03<br>Matrix:        WATER<br><b>BTEX, TVH and TEH</b><br>TEH (C11-C30)<br><b>BTEX and TVH (C5-C10)</b><br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes<br>Total Volatiles                                  | 1.7     |           | 0.05   | mg/L  | 03-SEP-03 | 03-SEP-03 | OAL | R141337 |
|                                                                                                                                                                                                                                                                            | 0.0015  |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | 0.017   |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | 0.0014  |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | 0.012   |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | 0.1     |           | 0.1    | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
| L128027-4      AUG 28/03 4:00PM AFTER<br>Sample Date: 29-AUG-03<br>Matrix:        WATER<br><b>BTEX, TVH and TEH</b><br>TEH (C11-C30)<br><b>BTEX and TVH (C5-C10)</b><br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes<br>Total Volatiles                                   | 2.3     |           | 0.05   | mg/L  | 03-SEP-03 | 03-SEP-03 | OAL | R141337 |
|                                                                                                                                                                                                                                                                            | 0.0013  |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | 0.012   |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | 0.0009  |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | 0.0090  |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | <0.1    |           | 0.1    | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
| L128027-6      AUG 28/03 9:00PM AFTER<br>Sample Date: 29-AUG-03<br>Matrix:        WATER<br><b>BTEX, TVH and TEH</b><br>TEH (C11-C30)<br><b>BTEX and TVH (C5-C10)</b><br>Benzene<br>Toluene<br>Ethylbenzene<br>Xylenes<br>Total Volatiles                                   | 16      |           | 0.05   | mg/L  | 03-SEP-03 | 03-SEP-03 | OAL | R141337 |
|                                                                                                                                                                                                                                                                            | <0.0005 |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | <0.0005 |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | <0.0005 |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | <0.0005 |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
|                                                                                                                                                                                                                                                                            | 0.2     |           | 0.1    | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
| L128027-8      AUG 29/03 11:00AM AFTER<br>Sample Date: 30-AUG-03<br>Matrix:        WATER<br><b>BTEX, TVH and TEH</b>                                                                                                                                                       |         |           |        |       |           |           |     |         |

## ENVIRO-TEST ANALYTICAL REPORT

| Sample Details/Parameters                                                                                                      | Result  | Qualifier | D.L.   | Units | Extracted | Analyzed  | By  | Batch   |
|--------------------------------------------------------------------------------------------------------------------------------|---------|-----------|--------|-------|-----------|-----------|-----|---------|
| L128027-8      AUG 29/03 11:00AM AFTER<br>Sample Date: 30-AUG-03<br>Matrix: WATER<br><b>BTEX, TVH and TEH</b><br>TEH (C11-C30) | 1.7     |           | 0.05   | mg/L  | 03-SEP-03 | 03-SEP-03 | OAL | R141337 |
| <b>BTEX and TVH (C5-C10)</b><br>Benzene                                                                                        | <0.0005 |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
| Toluene                                                                                                                        | <0.0005 |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
| Ethylbenzene                                                                                                                   | <0.0005 |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
| Xylenes                                                                                                                        | <0.0005 |           | 0.0005 | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
| Total Volatiles                                                                                                                | 0.4     |           | 0.1    | mg/L  | 03-SEP-03 | 04-SEP-03 | MMY | R141405 |
| Refer to Referenced Information for Qualifiers (if any) and Methodology.                                                       |         |           |        |       |           |           |     |         |

## Reference Information

### Methods Listed (if applicable):

| ETL Test Code                   | Matrix | Test Description      | Preparation Method Reference(Based On) | Analytical Method Reference(Based On) |
|---------------------------------|--------|-----------------------|----------------------------------------|---------------------------------------|
| BTX,TVH-CL                      | Water  | BTEX and TVH (C5-C10) |                                        | EPA 5030/8015& 8260-P&T GC-MS/FID     |
| TVH includes BTEX contribution. |        |                       |                                        |                                       |
| TEH-CL                          | Water  | TEH (C11-C30)         |                                        | EPA 3510/8000-GC-FID                  |

\*\* Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

### Chain of Custody numbers:

59955

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location                                 | Laboratory Definition Code | Laboratory Location |
|----------------------------|-----------------------------------------------------|----------------------------|---------------------|
| CL                         | Enviro-Test Laboratories - Calgary, Alberta, Canada |                            |                     |

### GLOSSARY OF REPORT TERMS

*Surr* - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds. The reported surrogate recovery value provides a measure of method efficiency. The Laboratory warning units are determined under column heading D.L.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

< - Less than

D.L. - Detection Limit

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

Enviro-Test Laboratories has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, Enviro-Test Laboratories assumes no liability for the use or interpretation of the results.

## ENVIRO-TEST QC REPORT

Workorder: L128027

Client: EBA ENG CONSULTANTS LTD  
14940 123 AVE NORTH BLDG  
EDMONTON AB T5V 1B4

Contact: STEVE TAYLOR

| Test              | Matrix  | Reference    | Result  | Qualifier | Units | RPD | Limit  | Analyzed  |
|-------------------|---------|--------------|---------|-----------|-------|-----|--------|-----------|
| <u>BTX,TVH-CL</u> |         | <u>Water</u> |         |           |       |     |        |           |
| Batch             | R141405 |              |         |           |       |     |        |           |
| WG136633-2        | MB      |              |         |           |       |     |        |           |
| Benzene           |         |              | <0.0005 |           | mg/L  |     | 0.0005 | 04-SEP-03 |
| Ethylbenzene      |         |              | <0.0005 |           | mg/L  |     | 0.0005 | 04-SEP-03 |
| Toluene           |         |              | <0.0005 |           | mg/L  |     | 0.0005 | 04-SEP-03 |
| Total Volatiles   |         |              | <0.1    |           | mg/L  |     | 0.1    | 04-SEP-03 |
| Xylenes           |         |              | <0.0005 |           | mg/L  |     | 0.0005 | 04-SEP-03 |
| <u>TEH-CL</u>     |         | <u>Water</u> |         |           |       |     |        |           |
| Batch             | R141337 |              |         |           |       |     |        |           |
| WG136499-1        | MB      |              |         |           |       |     |        |           |
| TEH (C11-C30)     |         |              | <0.05   |           | mg/L  |     | 0.05   | 04-SEP-03 |

Product - Batch and Sample Number Relations:

|            |   |           |           |           |           |           |
|------------|---|-----------|-----------|-----------|-----------|-----------|
| BTX,TVH-CL | 1 |           |           |           |           |           |
| R141405    |   | L128027-1 | L128027-2 | L128027-4 | L128027-6 | L128027-8 |
| TEH-CL     | 1 |           |           |           |           |           |
| R141337    |   | L128027-1 | L128027-2 | L128027-4 | L128027-6 | L128027-8 |

Workorder # L128027

## Legend:

|       |                                                                                    |
|-------|------------------------------------------------------------------------------------|
| Limit | 95% Confidence Interval (Laboratory Warning Limits)                                |
| DUP   | Duplicate                                                                          |
| RPD   | Relative Percent Difference ((higher result-lower result)/Average, expressed as %) |
| N/A   | Not Available                                                                      |
| LCS   | Laboratory Control Sample                                                          |
| SRM   | Standard Reference Materials                                                       |
| MS    | Matrix Spike                                                                       |
| MSD   | Matrix Spike Duplicate                                                             |
| ADE   | Average Desorption Efficiency                                                      |
| MB    | Method Blank                                                                       |
| IRM   | Internal Reference Material                                                        |
| CRM   | Certified Reference Material                                                       |

## Qualifier:

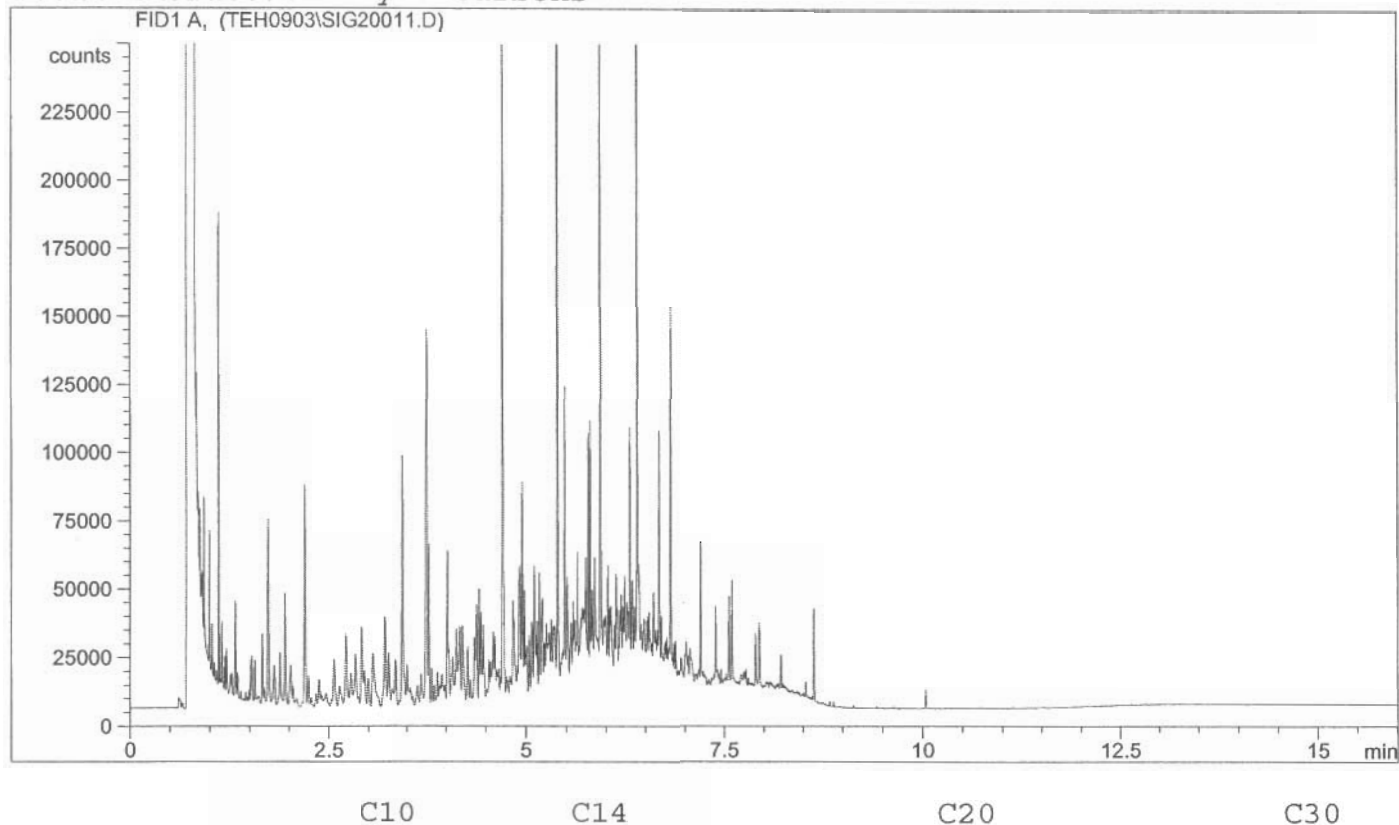
|        |                                                                                                                                                                       |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit.                                                                           |
| A      | Method blank exceeds acceptance limit. Blank correction not applied, unless the qualifier "RAMB" (result adjusted for method blank) appears in the Analytical Report. |
| B      | Method blank result exceeds acceptance limit, however, it is less than 5% of sample concentration.<br>Blank correction not applied.                                   |
| D      | Duplicate result may exceed limit due to increased variability for low level samples.                                                                                 |
| E      | Matrix spike recovery may fall outside the acceptance limits due to high sample background.                                                                           |
| F      | Silver recovery low, likely due to elevated chloride levels in sample.                                                                                                |
| G      | Outlier - No assignable cause for nonconformity has been determined.                                                                                                  |
| H      | Result falls within the 99% Confidence Interval (Laboratory Control Limits)                                                                                           |
| J      | Duplicate results and limit(s) are expressed in terms of absolute difference.                                                                                         |
| K      | The sample referenced above is of a non-standard matrix type; standard QC acceptance criteria may not be achievable.                                                  |

Client ID: AUG 28/03 11:00AM BEFORE

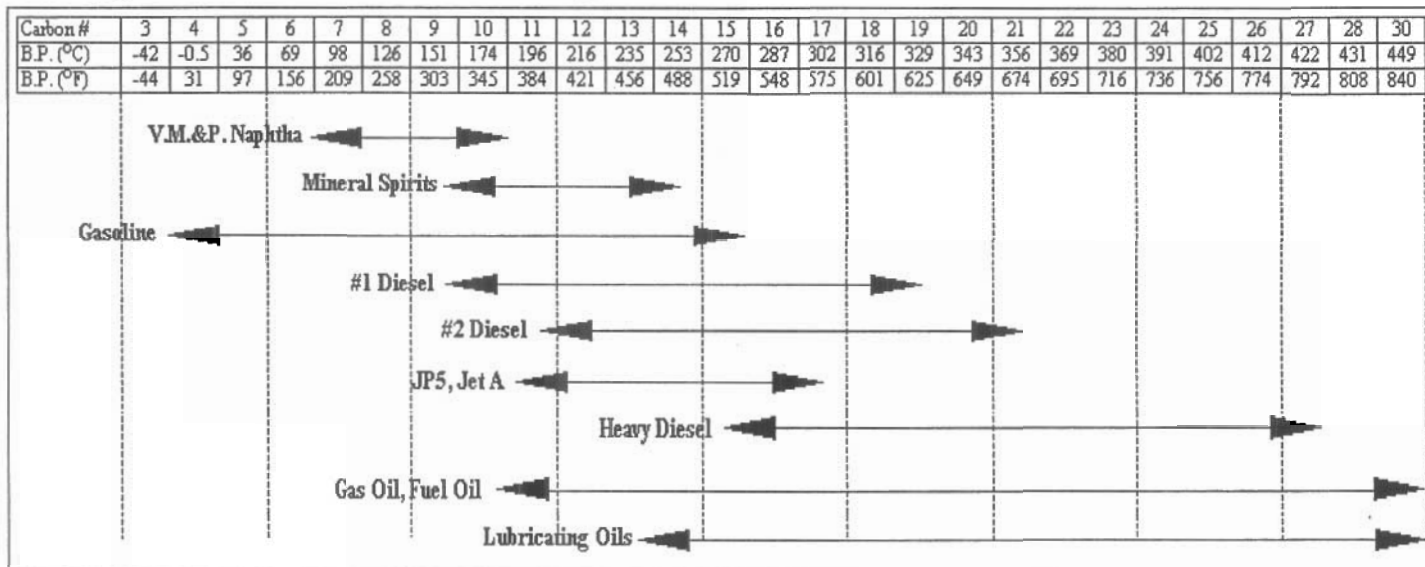


Sample ID: L128027-1 v4teh  
Injection Date: 9/3/03  
Injection Time: 3:48:32 PM  
Instrument ID: teh1

### Total Extractable Hydrocarbons



### Boiling Point Distribution Range for Petroleum Based Fuel Products

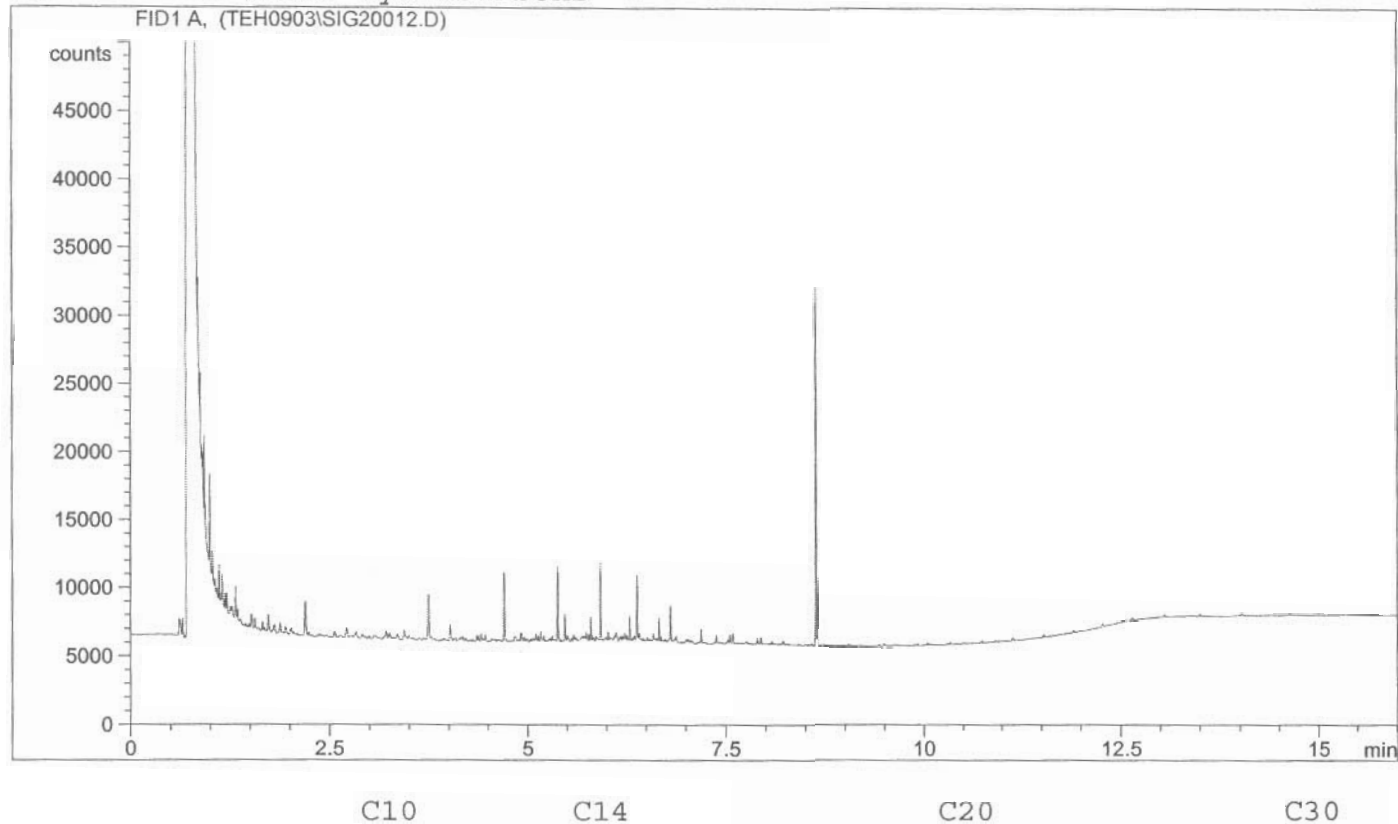


Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII.

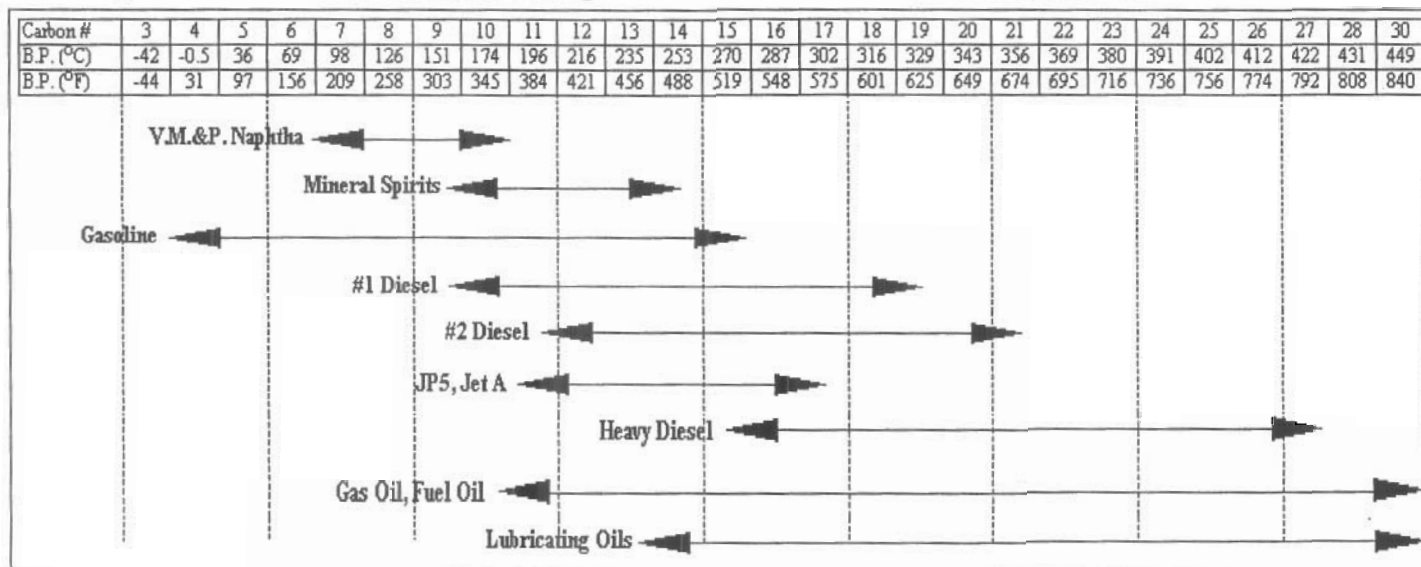
Client ID: AUG 28/03 11:00AM AFTER  
 Sample ID: L128027-2 v4teh  
 Injection Date: 9/3/03  
 Injection Time: 4:12:32 PM  
 Instrument ID: teh1



# Total Extractable Hydrocarbons



## Boiling Point Distribution Range for Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII.

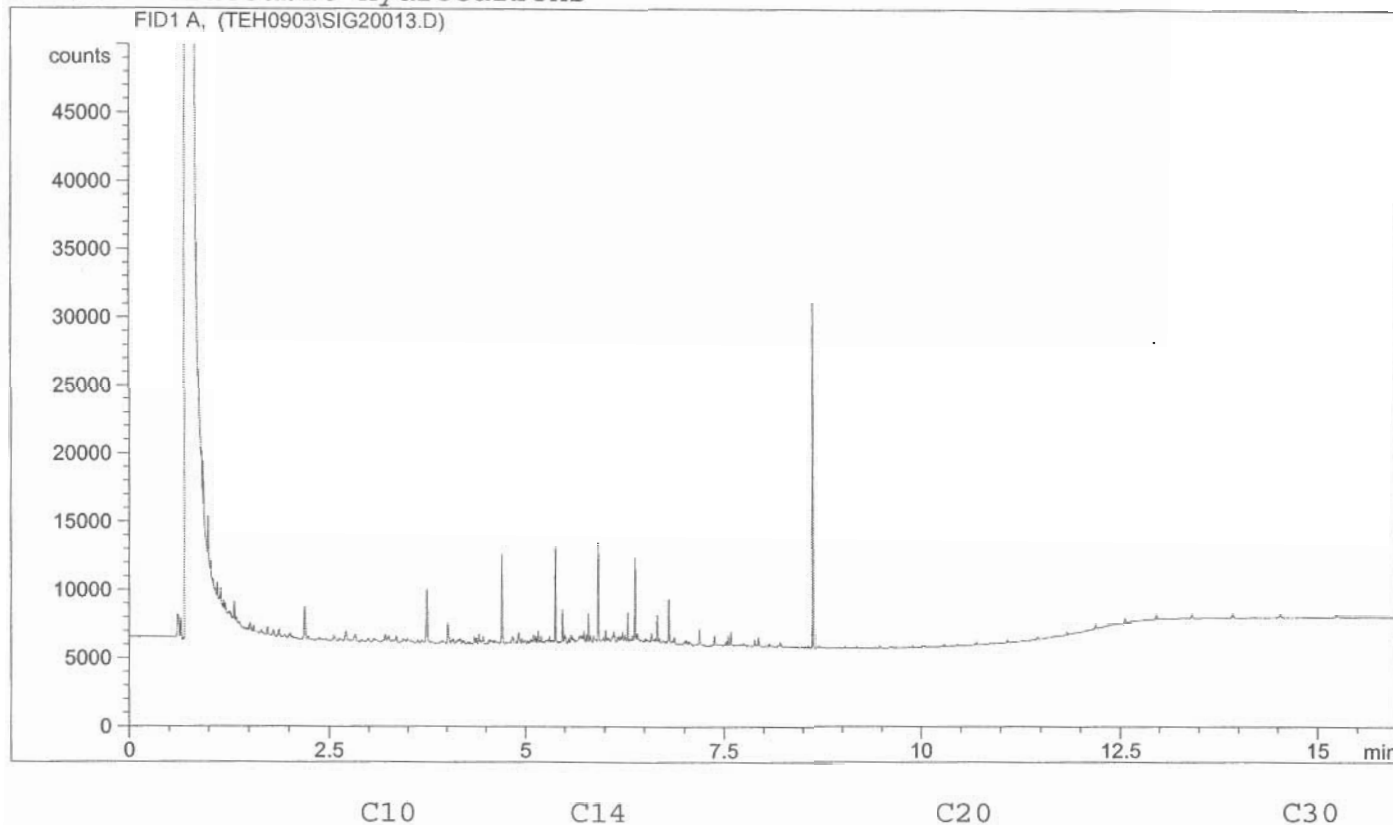
Client ID: AUG 28/03 4:00PM AFTER



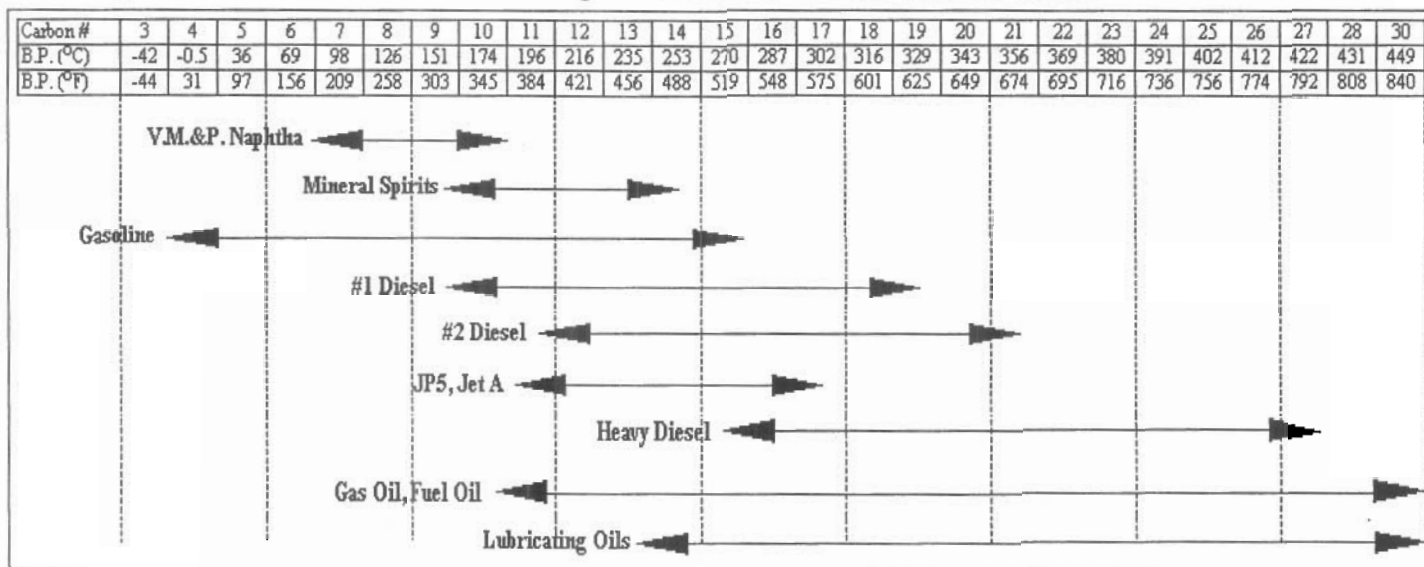
->

Sample ID: L128027-4 v4teh  
Injection Date: 9/3/03  
Injection Time: 4:36:28 PM  
Instrument ID: teh1

### Total Extractable Hydrocarbons



### Boiling Point Distribution Range for Petroleum Based Fuel Products



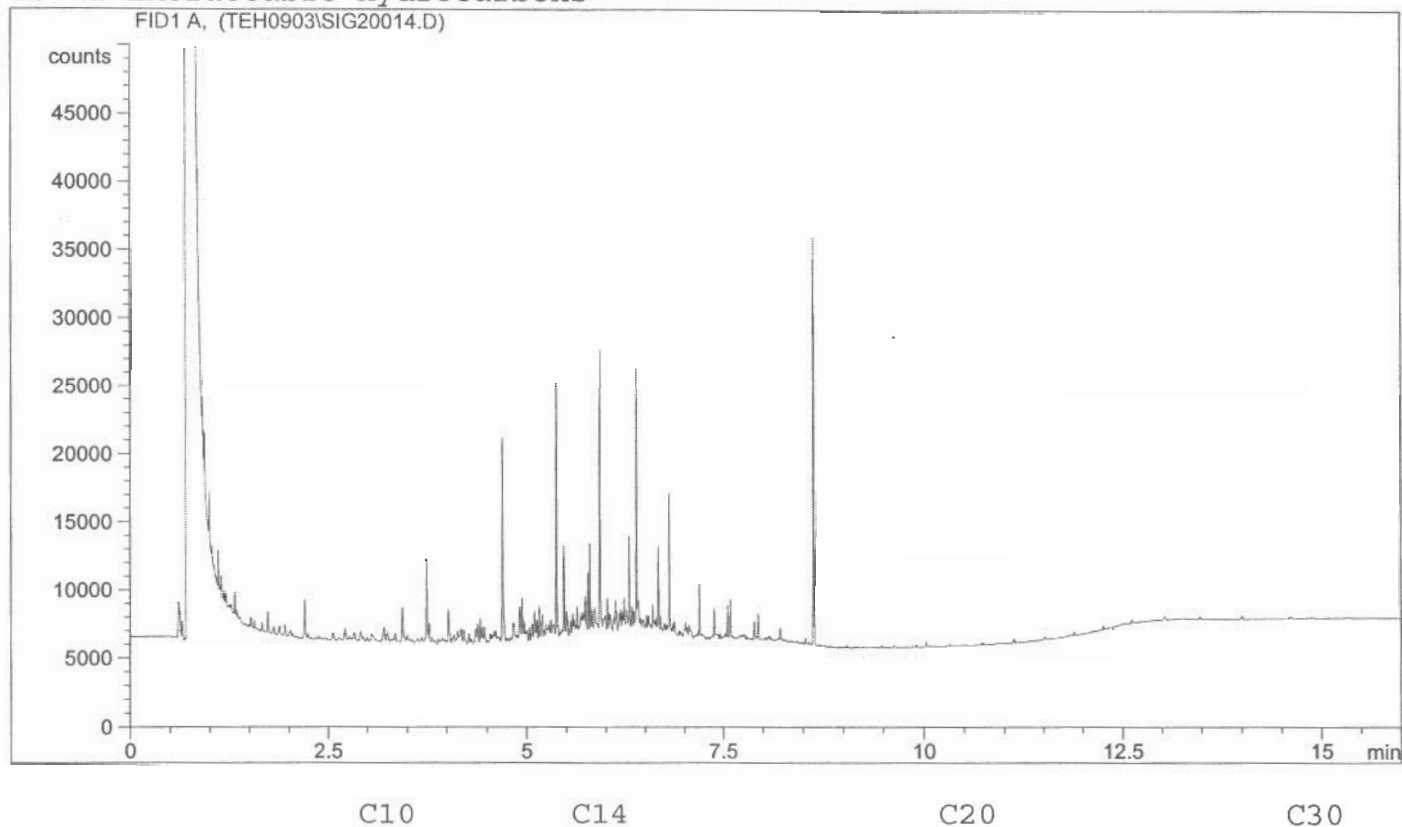
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII.

Client ID: AUG 29/03 9:00PM AFTER

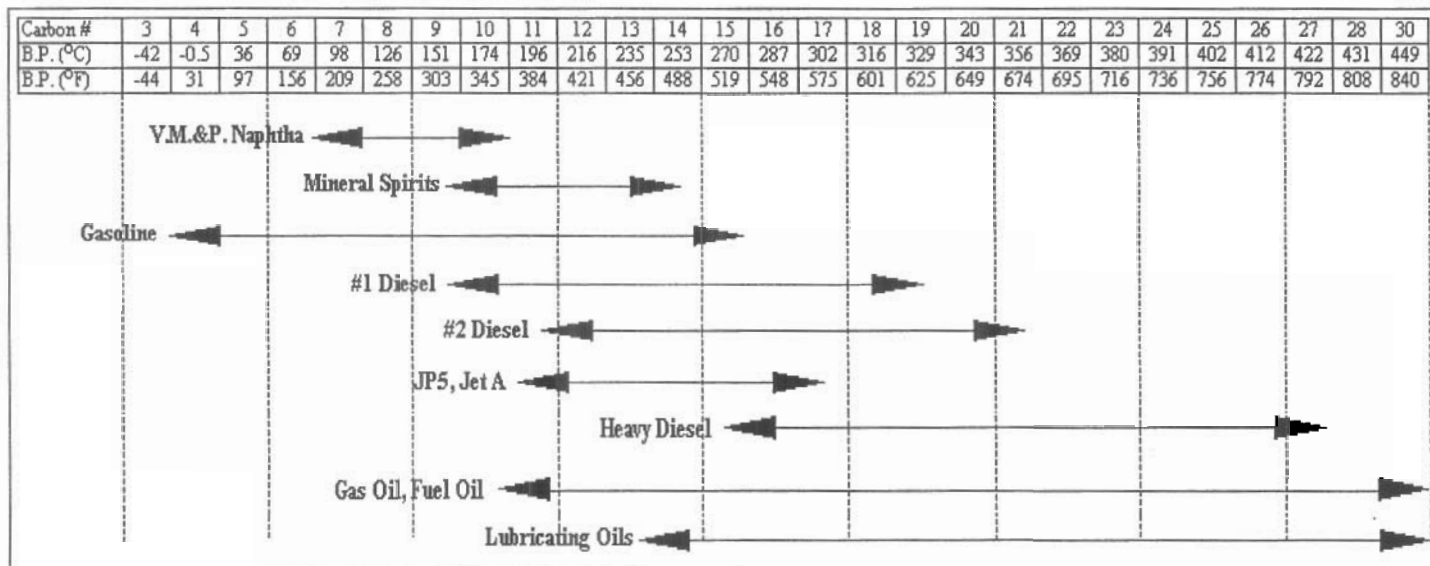


Sample ID: L128027-6 v4teh  
Injection Date: 9/3/03  
Injection Time: 5:00:27 PM  
Instrument ID: teh1

### Total Extractable Hydrocarbons



### Boiling Point Distribution Range for Petroleum Based Fuel Products



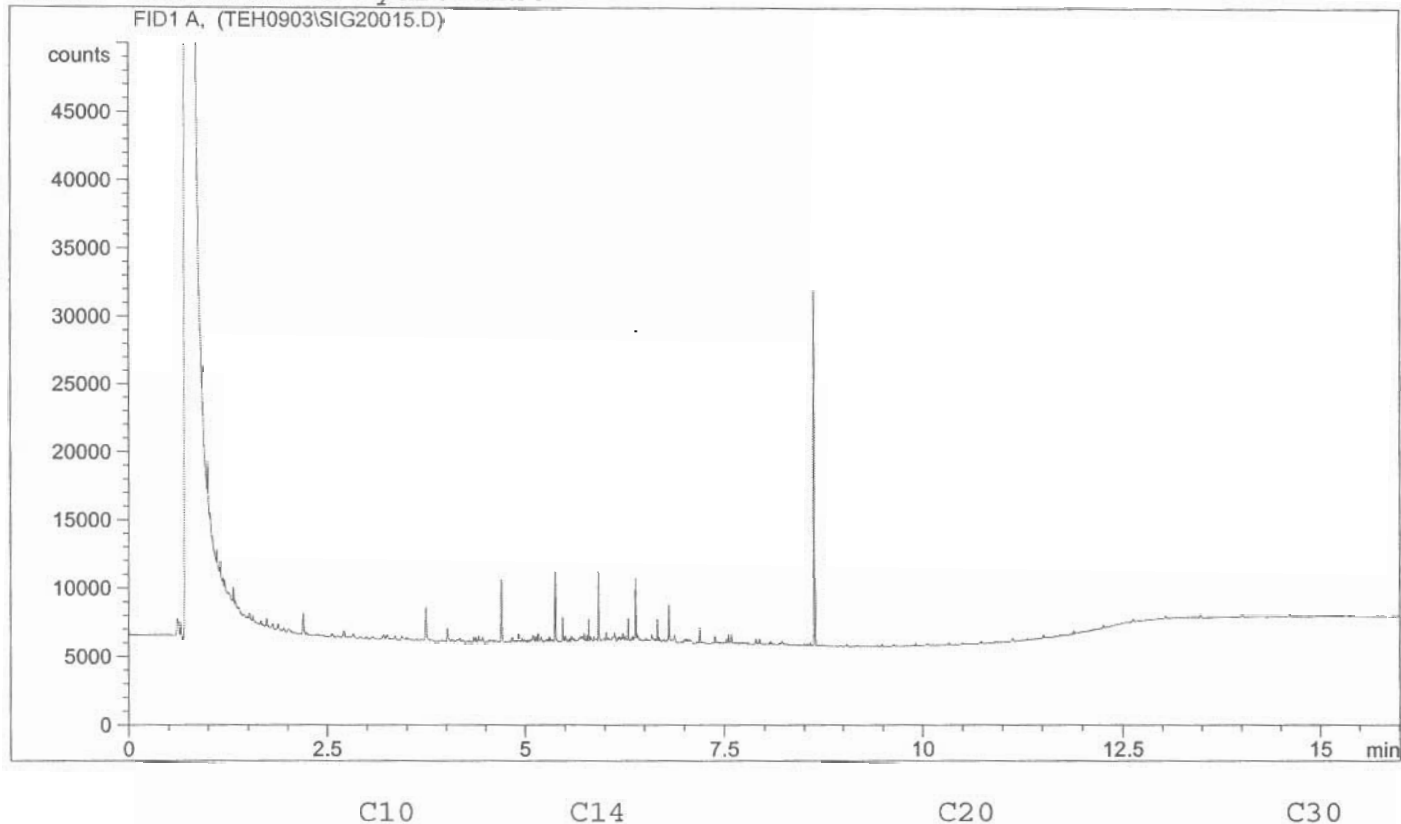
Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII.

Client ID: AUG29/03 11:00AM AFTER

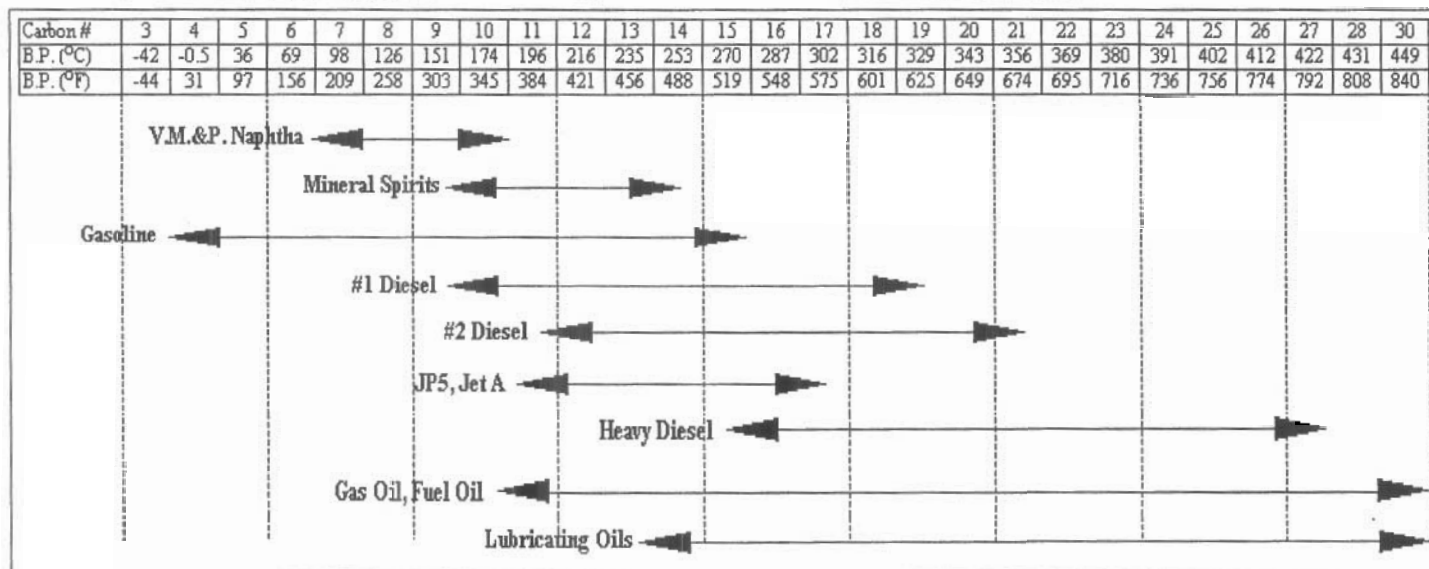


Sample ID: L128027-8 v4teh  
Injection Date: 9/3/03  
Injection Time: 5:24:27 PM  
Instrument ID: teh1

### Total Extractable Hydrocarbons



### Boiling Point Distribution Range for Petroleum Based Fuel Products



Adapted from: Drews, A.W., ED. Manual on Hydrocarbon Analysis, 4th ed.; American Society for Testing and Materials: Philadelphia, PA., 1989: p XVIII.