



CORE LABORATORIES

LABORATORY TESTS RESULTS 07/10/98

JOB NUMBER: 980859

CUSTOMER: John R. Marlow

ATTN: John R. Marlow

CLIENT I.D.: 89 Oct. Texaco, No Catalyst
 DATE SAMPLED: 07/06/98
 TIME SAMPLED: 00:00
 WORK DESCRIPTION: 89 Oct. Texaco, Without Catalyst Control

LABORATORY I.D.: 980859-0001
 DATE RECEIVED: 07/06/98
 TIME RECEIVED: 12:23
 REMARKS: 1 Gallon & 1 Quart Flat Can

| TEST DESCRIPTION | FINAL RESULT | LIMITS/*DILUTION | UNITS OF MEASURE | TEST METHOD | DATE | TECHN |
|------------------------------------|--------------|------------------|------------------|--------------------|----------|-------|
| ASTM D-86 Distillation | | *1 | | ASTM D-86 | 07/10/98 | GS |
| Initial Boiling Point | 101 | 1 | Deg. F | ASTM D-86 | | |
| 05% Evaporated Temperature | 130 | 1 | Deg. F | ASTM D-86 | | |
| 10% Evaporated Temperature | 140 | 1 | Deg. F | ASTM D-86 | | |
| 20% Evaporated Temperature | 153 | 1 | Deg. F | ASTM D-86 | | |
| 30% Evaporated Temperature | 167 | 1 | Deg. F | ASTM D-86 | | |
| 40% Evaporated Temperature | 185 | 1 | Deg. F | ASTM D-86 | | |
| 50% Evaporated Temperature | 203 | 1 | Deg. F | ASTM D-86 | | |
| 60% Evaporated Temperature | 225 | 1 | Deg. F | ASTM D-86 | | |
| 70% Evaporated Temperature | 250 | 1 | Deg. F | ASTM D-86 | | |
| 80% Evaporated Temperature | 280 | 1 | Deg. F | ASTM D-86 | | |
| 90% Evaporated Temperature | 319 | 1 | Deg. F | ASTM D-86 | | |
| 95% Evaporated Temperature | 344 | 1 | Deg. F | ASTM D-86 | | |
| End Point | 397 | 1 | Deg. F | ASTM D-86 | | |
| % Recovery | 98.4 | 0.1 | Vol. % | ASTM D-86 | | |
| % Residue | 0.9 | 0.1 | Vol. % | ASTM D-86 | | |
| % Loss | 0.7 | 0 | Vol. % | ASTM D-86 | | |
| Aromatics, Olefins, Saturates | | *1 | | ASTM D-1319 | 07/10/98 | CM |
| Aromatics | 24.2 | 1.0 | Volume % | ASTM D-1319 | | |
| Olefins | 3.1 | 1.0 | Volume % | ASTM D-1319 | | |
| Saturates | 72.7 | 1.0 | Volume % | ASTM D-1319 | | |
| Acid Number | 0.021 | 0.002 | mg KOH/g | ASTM D-664 | 07/10/98 | GMS |
| Ratio Equivalent Vapor Pressure | | *1 | | ASTM D-5191 | 07/10/98 | GS |
| RVP CARB Calculation | 6.97 | 0.10 | psi | ASTM D-5191 (CARB) | | |
| RVP EPA Calculation | 7.21 | 0.10 | psi | ASTM D-5191 (EPA) | | |
| RVP ASTM Calculation | 7.07 | 0.10 | psi | ASTM D-5191 (ASTM) | | |
| Pressure Total/ Grabber Instrument | 7.90 | 0.10 | psi | ASTM D-5191 | | |

21730 S. Wilmington Suite 201
 Carson, CA 90810
 (310) 513-2031



CORE LABORATORIES

LABORATORY TESTS RESULTS

07/10/98

JOB NUMBER: 980859

CUSTOMER: John R. Marlow

ATTN: John R. Marlow

CLIENT I.D.: 89 Oct. Texaco, With Catalyst
 DATE SAMPLED: 07/06/98
 TIME SAMPLED: 00:00
 WORK DESCRIPTION: 89 Oct. Texaco, With Catalyst Control

LABORATORY I.D.: 980859-0002
 DATE RECEIVED: 07/06/98
 TIME RECEIVED: 12:22
 REMARKS: 1 Gallon & 1 Quart Flat Can

| TEST DESCRIPTION | FINAL RESULT | LIMITS/*DILUTION | UNITS OF MEASURE | TEST METHOD | DATE | TECHN |
|------------------------------------|--------------|------------------|------------------|--------------------|----------|-------|
| ASTM D-86 Distillation | | *1 | | ASTM D-86 | 07/10/98 | GS |
| Initial Boiling Point | 96 | 1 | Deg. F | ASTM D-86 | | |
| 05% Evaporated Temperature | 130 | 1 | Deg. F | ASTM D-86 | | |
| 10% Evaporated Temperature | 140 | 1 | Deg. F | ASTM D-86 | | |
| 20% Evaporated Temperature | 153 | 1 | Deg. F | ASTM D-86 | | |
| 30% Evaporated Temperature | 167 | 1 | Deg. F | ASTM D-86 | | |
| 40% Evaporated Temperature | 184 | 1 | Deg. F | ASTM D-86 | | |
| 50% Evaporated Temperature | 204 | 1 | Deg. F | ASTM D-86 | | |
| 60% Evaporated Temperature | 226 | 1 | Deg. F | ASTM D-86 | | |
| 70% Evaporated Temperature | 250 | 1 | Deg. F | ASTM D-86 | | |
| 80% Evaporated Temperature | 281 | 1 | Deg. F | ASTM D-86 | | |
| 90% Evaporated Temperature | 319 | 1 | Deg. F | ASTM D-86 | | |
| 95% Evaporated Temperature | 345 | 1 | Deg. F | ASTM D-86 | | |
| End Point | 395 | 1 | Deg. F | ASTM D-86 | | |
| % Recovery | 97.9 | 0.1 | Vol. % | ASTM D-86 | | |
| % Residue | 0.9 | 0.1 | Vol. % | ASTM D-86 | | |
| % Loss | 1.2 | 0 | Vol. % | ASTM D-86 | | |
| Aromatics, Olefins, Saturates | | *1 | | ASTM D-1319 | 07/10/98 | CH |
| Aromatics | 25.1 | 1.0 | Volume % | ASTM D-1319 | | |
| Olefins | 3.5 | 1.0 | Volume % | ASTM D-1319 | | |
| Saturates | 71.4 | 1.0 | Volume % | ASTM D-1319 | | |
| Acid Number | 0.022 | 0.002 | mg KOH/g | ASTM D-664 | 07/10/98 | GMS |
| Raid Equivalent Vapor Pressure | | *1 | | ASTM D-5191 | 07/10/98 | GS |
| RVP CARB Calculation | 6.96 | 0.10 | psi | ASTM D-5191 (CARB) | | |
| RVP EPA Calculation | 7.19 | 0.10 | psi | ASTM D-5191 (EPA) | | |
| RVP ASTM Calculation | 7.06 | 0.10 | psi | ASTM D-5191 (ASTM) | | |
| Pressure Total/ Grabner Instrument | 7.89 | 0.10 | psi | ASTM D-5191 | | |

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CORE LABORATORIES

LABORATORY TESTS RESULTS

02/02/001

JOB NUMBER: 110137 CUSTOMER: ATTN:

SAMPLE NUMBER: 7 DATE RECEIVED: 01/31/01 TIME RECEIVED: : SAMPLE DATE: / / SAMPLE TIME: :

PROJECT: 2 Days with Cat SAMPLE: 2 Days With Cat REM: 1-1gas red container

| TEST DESCRIPTION | SAMPLE | 7 | | | | | UNITS OF MEASURE |
|------------------------------|--------|---|--|--|--|--|------------------|
| Sulfur by X-ray Spectrometry | 0.0118 | | | | | | wt% |
| Cetane Number, Neat | 54.8 | | | | | | Cetane Number |

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CORE LABORATORIES
ANALYTICAL REPORT

Job Number: 980859
Prepared For:

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John R. Marlow
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Las Vegas, NV 89121

Date: 07/10/98

Signature



Date:

7/10/98

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