



DATE OF SHIPMENT

CUSTOMER PO NO.

SALES ORDER NO.

MFG. DATE: 8/21/2025
SHELF LIFE: UNDETERMINED

CERTIFICATE OF ANALYSIS

TrusTec™ DIESEL CETANE SECONDARY REFERENCE FUEL T-36

| <u>TEST</u> | <u>*RESULT</u> | <u>ASTM TEST METHOD</u> |
|--------------------------------------|------------------------|-------------------------|
| Specific Gravity, 60/60F | 0.810 | Calculated |
| Density, 15°C, kg/m ³ | 810.1 | D-1298, D-4052 |
| API Gravity ^o | 43.1 | D-4052 |
| Sulfur, ppm 5.3 | D-5453, D-2622, D-7039 | |
| Flash Point, PMCC, °F | 211.2 | D-93 |
| Viscosity @ 40°C, mm ² /s | 3.085 | D-445, D-7042 |
| Aniline Point, °F | 186.7 | D-611 |
| Peroxides, mg/kg | 0.350 | D-3703 |
| Distillation, % recovered | | D-86 |
| IBP, °F | 430.9 | |
| 10%, °F | 473.4 | |
| 50%, °F | 508.0 | |
| 90%, °F | 669.2 | |
| End, °F | 688.3 | |
| Recovery, % | 97.7 | |
| Loss, % | 0.7 | |
| Residue, % | 1.5 | |
| Hydrocarbon Type by FIA | | D-1319 |
| Aromatics, volume % | 9.1 | |
| Olefins, volume % | 1.1 | |
| Saturates, volume % | 90.1 | |
| Cetane Number (regressed) | 75.3 | D-613 |

*This product is manufactured and packaged by Chevron Phillips Chemical Company, LP. The data presented herein is from the ASTM Subcommittee D02.01 Section E on Reference Materials and is based on round-robin certification tests.

Special request reported value of distillation at 5% is 465.1 F and at 95% 684.7 °F
Special request reported value for Carbon Residue is <0.1

SPECIALTY CHEMICALS QUALITY ASSURANCE

For COA questions contact Customer Service at 1-800-858-4327.

JTM
3/31/26



**ASTM, SUBCOMMITTEE D 02.01 ON COMBUSTION CHARACTERISTICS
CETANE NUMBER CALIBRATION FOR TrusTec™ DIESEL SECONDARY REFERENCE FUEL T-36
BLENDED WITH TrusTec™ DIESEL SECONDARY REFERENCE FUEL U-36 BY VOLUME**

| <u>Vol % T-36</u> | <u>Cetane Number</u> | <u>Vol % T-36</u> | <u>Cetane Number</u> | <u>Vol % T-36</u> | <u>Cetane Number</u> |
|-------------------|----------------------|-------------------|----------------------|-------------------|----------------------|
| 0 | 19.7 | 34 | 38.6 | 68 | 57.5 |
| 1 | 20.2 | 35 | 39.1 | 69 | 58.0 |
| 2 | 20.8 | 36 | 39.7 | 70 | 58.6 |
| 3 | 21.3 | 37 | 40.2 | 71 | 59.1 |
| 4 | 21.9 | 38 | 40.8 | 72 | 59.7 |
| 5 | 22.5 | 39 | 41.4 | 73 | 60.3 |
| 6 | 23.0 | 40 | 41.9 | 74 | 60.8 |
| 7 | 23.6 | 41 | 42.5 | 75 | 61.4 |
| 8 | 24.1 | 42 | 43.0 | 76 | 61.9 |
| 9 | 24.7 | 43 | 43.6 | 77 | 62.5 |
| 10 | 25.2 | 44 | 44.1 | 78 | 63.0 |
| 11 | 25.8 | 45 | 44.7 | 79 | 63.6 |
| 12 | 26.4 | 46 | 45.2 | 80 | 64.1 |
| 13 | 26.9 | 47 | 45.8 | 81 | 64.7 |
| 14 | 27.5 | 48 | 46.4 | 82 | 65.3 |
| 15 | 28.0 | 49 | 46.9 | 83 | 65.8 |
| 16 | 28.6 | 50 | 47.5 | 84 | 66.4 |
| 17 | 29.1 | 51 | 48.0 | 85 | 66.9 |
| 18 | 29.7 | 52 | 48.6 | 86 | 67.5 |
| 19 | 30.2 | 53 | 49.1 | 87 | 68.0 |
| 20 | 30.8 | 54 | 49.7 | 88 | 68.6 |
| 21 | 31.4 | 55 | 50.3 | 89 | 69.2 |
| 22 | 31.9 | 56 | 50.8 | 90 | 69.7 |
| 23 | 32.5 | 57 | 51.4 | 91 | 70.3 |
| 24 | 33.0 | 58 | 51.9 | 92 | 70.8 |
| 25 | 33.6 | 59 | 52.5 | 93 | 71.4 |
| 26 | 34.1 | 60 | 53.0 | 94 | 71.9 |
| 27 | 34.7 | 61 | 53.6 | 95 | 72.5 |
| 28 | 35.2 | 62 | 54.1 | 96 | 73.0 |
| 29 | 35.8 | 63 | 54.7 | 97 | 73.6 |
| 30 | 36.4 | 64 | 55.3 | 98 | 74.2 |
| 31 | 36.9 | 65 | 55.8 | 99 | 74.7 |
| 32 | 37.5 | 66 | 56.4 | 100 | 75.3 |
| 33 | 38.0 | 67 | 56.9 | | |

NOTE:

TrusTec™ Secondary Reference Fuel T-36 and TrusTec™ Secondary Reference Fuel U-36 are available from Chevron Phillips Chemical Co LP. These two secondary reference fuels are used in preparing reference cetane number blends in testing diesel fuels by ASTM D-613. Secondary reference fuel blends must be only from these two fuels. Do not blend either of these fuels with an earlier batch of T or U. The data presented herein is from the ASTM Subcommittee D02.01 Section E on Reference Materials and is based on round-robin certification tests.