



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 U-36

<u>TEST</u>	<u>*RESULT</u>	<u>ASTM TEST METHOD</u>
Specific Gravity, 60/60F	0.861	Calculated
Density, 15°C kg/m <sup>3</sup>	861.4	D-1298, D-4052
API Gravity <sup>o</sup>	32.7	D-4052
Sulfur, ppm 52.4	D-5453, D-2622, D-7039	
Flash Point, PMCC, °F	100.8	D-93
Viscosity @ 40°C, mm <sup>2</sup> /s	1.776	D-445, D-7042
Aniline Point, °F	104.6	D-611
Peroxides, mg/kg 0.331	D-3703	
Distillation, % recovered		D-86
IBP, °F	339.2	
10%, °F	395.6	
50%, °F	434.6	
90%, °F	542.2	
End, °F	598.2	
Recovery, %	98.5	
Loss, %	0.3	
Residue, %	1.3	
Hydrocarbon Type by FIA		D-1319
Aromatics, volume %	45.7	
Olefins, volume %	2.7	
Saturates, volume %	51.3	
Cetane Number (regressed)	19.7	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 for distillation at 5% is 385.5°F and at 95% 568.9°F  
Special request reported value for Carbon Residue <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.