



DATE OF SHIPMENT

CUSTOMER PO NO.

SALES ORDER NO.

MFG. DATE: 2/10/2023
SHELF LIFE: UNDETERMINED

CERTIFICATE OF ANALYSIS

TrusTec™ DIESEL CETANE SECONDARY REFERENCE FUEL U-34

<u>TEST</u>	<u>*RESULT</u>	<u>ASTM TEST METHOD</u>
Specific Gravity, 60/60F	0.875	Calculated
Density, 15°C kg/m ³	875.0	D-1298, D-4052
API Gravity ^o	30.2	D-4052
Sulfur, ppm	99.1	D-5453, D-2622, D-7039
Flash Point, PMCC, °F	121.5	D-93
Viscosity @ 40°C, mm ² /s	1.962	D-445, D-7042
Aniline Point, °F	100.9	D-611
Peroxides, mg/kg	0.336	D-3703
Distillation, % recovered		D-86
IBP, °F	348.1	
10%, °F	401.4	
50%, °F	460.6	
90%, °F	561.0	
End, °F	625.8	
Recovery, %	98.4	
Loss, %	0.4	
Residue, %	1.2	
Hydrocarbon Type by FIA		D-1319
Aromatics, volume %	47.1	
Olefins, volume %	1.1	
Saturates, volume %	51.8	
Cetane Number (regressed)	20.6	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 performed by the Diesel National Exchange Group.

Special request reported value for distillation at 5% is 377.4°F and at 95% 597.8°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:clg
4/4/23



**ASTM, SUBCOMMITTEE D 02.01 ON COMBUSTION CHARACTERISTICS
CETANE NUMBER CALIBRATION FOR TrusTec™ DIESEL SECONDARY REFERENCE FUEL T-34
BLENDED WITH TrusTec™ DIESEL SECONDARY REFERENCE FUEL U-34 BY VOLUME**

<u>Vol % T-34</u>	<u>Cetane Number</u>	<u>Vol % T-34</u>	<u>Cetane Number</u>	<u>Vol % T-34</u>	<u>Cetane Number</u>
0	20.6	34	39.0	68	57.4
1	21.2	35	39.6	69	58.0
2	21.7	36	40.1	70	58.5
3	22.3	37	40.6	71	59.0
4	22.8	38	41.2	72	59.6
5	23.3	39	41.7	73	60.1
6	23.9	40	42.3	74	60.7
7	24.4	41	42.8	75	61.2
8	25.0	42	43.3	76	61.7
9	25.5	43	43.9	77	62.3
10	26.0	44	44.4	78	62.8
11	26.6	45	45.0	79	63.4
12	27.1	46	45.5	80	63.9
13	27.7	47	46.1	81	64.4
14	28.2	48	46.6	82	65.0
15	28.7	49	47.1	83	65.5
16	29.3	50	47.7	84	66.1
17	29.8	51	48.2	85	66.6
18	30.4	52	48.8	86	67.1
19	30.4	53	49.3	87	67.7
20	31.5	54	49.8	88	68.2
21	32.0	55	50.4	89	68.8
22	32.5	56	50.9	90	69.3
23	33.1	57	51.5	91	69.8
24	33.6	58	52.0	92	70.4
25	34.2	59	52.5	93	70.9
26	34.7	60	53.1	94	71.5
27	35.2	61	53.6	95	72.0
28	35.8	62	54.2	96	72.6
29	36.3	63	54.7	97	73.1
30	36.9	64	55.2	98	73.6
31	37.4	65	55.8	99	74.2
32	37.9	66	56.3	100	74.7
33	38.5	67	56.9		

NOTE:

TrusTec™ Secondary Reference Fuel T-34 and TrusTec™ Secondary Reference Fuel U-34 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 performed by the Diesel National Exchange Group.