



DYNA-PLEX 21C[®] SHPD ENGINE OILS

Dyna-Plex 21C[®] SHPD Engine Oils are designed to extend drains in today's heavy duty diesel engines while providing outstanding engine protection. Dyna-Plex 21C SHPD oils incorporate base stocks exhibiting synthetic blend properties which provide high oxidation stability for petroleum oils. These base oils provide the lowest sulfur content with the highest saturate levels and enable oils to demonstrate oxidation characteristics comparable to high priced synthetics. These exceptional oxidation results contribute to SHPD's ability to fight degradation, allowing drain intervals to exceed usual limits. Dyna-Plex 21C SHPD Engine Oils are also formulated with the highest performance additive package technology available, allowing you to safely operate equipment longer between oil changes and increase your bottom line profits.

Dyna-Plex 21C SHPD Engine Oils meet or exceed the current and past API license requirements, are backward compatible with old formulations, and provide the protection required for newer 21st century engines, providing truly universal application flexibility.

<u>PROPERTY</u>	<u>ASTM TEST METHOD</u>	<u>SAE 10W30</u>	<u>SAE 15W40</u>	<u>SAE 20W50</u>
Viscosity @ -25°C, cP	D5293	6500	N/A	N/A
Viscosity @ -20°C, cP	D5293	N/A	5900	N/A
Viscosity @ -15°C, cP	D5293	N/A	N/A	6000
Viscosity @ 40°C, cSt	D445	84.39	115.0	157.7
Viscosity @ 100°C, cSt	D445	11.60	15.35	18.80
Viscosity Index	D2270	145	135	125
Flash Point, COC, °C (°F)	D92	221(430)	232(450)	241(465)
Pour Point, °C (°F)	D97	-36(-33)	-33(-27)	-21(-6)
Color	D1500	2.0	2.0	2.5
Gravity, °API	D287	30.8	30.0	28.8
Sulfated Ash, %	D874	1.0	1.0	1.2
Zinc, %	D4951	.13	.13	.13
Total Base Number (TBN)	D2896	10	10	10
HT/HS, cP	D4683	3.5	4.3	4.3
Kurt-Orbahn PVL		5%	9%	10%

Meets or exceeds the following tests and requirements:

API Service Classification - CJ-4, CI-4 Plus, CI-4, SM (10W30,15W40); SL (20W50)

Caterpillar - ECF-1, ECF-3, C-13

Mack - EO-M Plus, EO-M, T-11, T-12 (10W30,15W40); EO-N Prem Plus, EO-O Prem Plus '07 (10W30, 15W40)

Allison - C-4 Transmission test demonstrated

Cummins - CES 20081

General Motors - 6.5L (RFWT) (10W30, 15W40)

Navistar (International Harvester Company) - HEUI (Foam)

Volvo - VDS-2, VDS-3, VDS-4 (10W30, 15W40)

Global - DHD-1 Demonstrated (10W30, 15W40)

JASO - DH-2 (15W40)

Mercedes Benz - P228.3 (15W40)

ACEA - E7-04, E2, E4

Detroit 93K214, 93K213, 93K217, 93K218 (15W40)

John Deere - Plus - 50

Ford - WSS-M2C171-E (10W30,15W40)

NOTE: Certain tests apply to specific SAE grades.

EO-2/05.19.15