CARCE PRO-SPECIV HD SYNTHETIC









+ HEAVY-DUTY TEMPERATURE PERFORMANCE

PRO-SPEC® IV HD SYNTHETIC is a 5W/40 engine oil formulated with synthetic base oils to protect on-highway and off-highway diesel engines operating in a wide range of temperatures and under severe conditions that require a CJ-4 engine oil. Severe temperatures inside in an engine can result in premature fatigue and wear of internal parts. The use of synthetic base stocks results in a higher Viscosity Index (VI) and a fluid resistant to viscosity change in severe hot or cold temperatures, keeping the internal components of the engine protected.

IMPROVED FUEL ECONOMY AND EXTENDED DRAINS

PRO-SPEC® IV HD SYNTHETIC is formulated with an industry leading Base Number (BN) of 15 and a BN retention package to help maintain a high level of alkalinity in the engine oil, resulting in longer engine oil life and increased drain intervals. An improvement in fuel economy and extended drain intervals results in massive savings for consumers. Through testing, using PRO-SPEC® IV HD SYNTHETIC resulted in an increase in fuel economy of 1-3% when compared to a conventional 15W/40 CJ-4 engine oil.

PROVIDES WEAR PROTECTION

Conventional engine oils often fall short in providing the proper oil film needed during operation, especially in extreme temperatures and during start-up. The synthetic base oil that forms the building block of PRO-SPEC® IV HD SYNTHETIC helps significantly reduce wear in colder temperatures because synthetic base oils flow quicker, especially during cold start-ups. Since most wear on engines occurs at or shortly after start-up, the faster the engine oil can flow through the engine and provide a layer of lubrication, the better the oil can protect against wear.

RESISTS OXIDATION

Oxidation is the most common contributing factor to a reduction in life for an engine oil and premature engine failure. When engines must operate in high temperatures or perform harsh tasks for extended periods, engine oil is put to the extreme test. The acidification and thickening of engine oil during the oxidation process can only be combated by a robust additive package containing strong acid neutralizers and detergents to eliminate deposit build-ups. Even in severe operating conditions, PRO-SPEC® IV HD SYNTHETIC is formulated to help engines extend their drain intervals by keeping them clean of deposits.

PRO-SPEC IV HD SYNTHETIC SPECIFICATIONS

Meets and/or exceeds Allison TES-439 and C-4, MIL-L-2104E, MIL-L-46152E, Caterpillar TO-2, Caterpillar ECF-2, Caterpillar ECF-3, Cummins CES 20081, Cummins CES 20086, DTFR 15C100, Detroit Diesel Power Guard 93K21 Detroit Diesel Power Guard 93K214 and 93K218, Detroit Diesel DDC 93K222, Deutz DQC III-10-LA, Deutz DQC III-18LA, Ford WSS-M2C171-F1, Mack EO-N Premium Plus, Mack EO-N Premium Plus 03, Mack EO-O Premium Plus 07, Mack EO-S-4.5, Navistar, ACEA E11-22, E7-22, MAN 3275 and MAN M 3775, MTU Type 2.1, Volvo VDS-2, VDS-3, VDS-4 and VDS-4.5, Global DHD-1, Renault RLD-3, JASO DH-2, A.P.I CF-4, CG-4, CH-4, CI-4, CI-4, Plus, CJ-4, SH, SJ, SL, SM.

ASTM TEST METHOD	TESTS	5W/40
D287	API Gravity	27/29
D287	Specific Gravity at 60°F, Typical	.86
D-92	Flash Point, °F, COC, Minimum	420°F. (215°C.)
D-97	Pour Point, °F, Typical	-40°F. (-40°C.)
D-5293	Viscosity @ -30°C, Cold Cranking Simulator cP	6600 max.
D-4684	Viscosity @ -35°C, Mini Rotor Viscosimeter-TP1 cP	36,000
D-446	Viscosity @ 100°C, cSt, Typical	15.0
D-446	Viscosity @ 40°C, cSt, Typical	85.0
D-2270	Viscosity Index	170
D-874	Sulfated Ash, Wt. %, Maximum	1.68%
D-2896	Base Number, mg KOH/g	15
D-892	Foam Tendency/Stability:	
	Sequence I	0/0
	Sequence II	0/0
	Sequence III	0/0
	Calcium, Wt. %, Typical	0.45
	Zinc, Wt. %, Typical	0.12
	Nitrogen, Wt. %, Typical	0.18

Handling Information: For safe handling of the product, read the Safety Data Sheet (SDS).

PRO-SPEC® is a registered trademark of Texas Refinery Corp.

TEXAS REFINERY CORP

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