









HEAVY-DUTY PERFORMANCE AND SAVINGS

MOLY XL 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. Through testing, the use of MOLY XL 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. An improvement in fuel economy and extreme temperature performance offers customers exceptional savings on engine oil.

PROVIDES EXCEPTIONAL WEAR PROTECTION

MOLY XL PRO-SPEC® IV HD SYNTHETIC is formulated with liquid molybdenum compounds that are oil soluble and will not settle out of solution. The addition of moly increases the anti-wear protection for engines under heavy loads and during start-up, preventing metal surfaces from contacting each other. Reducing metal-to-metal contact significantly reduces friction, in turn resulting in less downtime and increased equipment life.

CONTAINS ROBUST ADDITIVES TO COMBAT OXIDATION

Engines and engine oils are put to the extreme test when they must perform harsh tasks or operate at extreme temperatures for an extended period. Engine oils that do not contain an additive package formulated with strong acid neutralizers and detergents begin to oxidize significantly quicker, resulting in deposit build-up and varnish. MOLY XL PRO-SPEC® IV HD SYNTHETIC is formulated with an industry leading Base Number (BN) of 15, a BN retention package, and a robust anti-oxidant package to help maintain a high level of alkalinity and cleanliness in the engine oil, regardless of operating conditions.

+ SUPERIOR COLD START PERFORMANCE

Since most wear on engines occurs at or shortly after start-up, the faster the engine oil can flow through the engine, the better the oil can protect against wear. Whereas conventional engine oils fail to provide the proper oil film needed during operation for heavy machinery, the synthetic base oil that forms the building block of MOLY XL PRO-SPEC® IV HD SYNTHETIC helps significantly reduce wear in colder temperatures. Superior cold start performance results in significant savings for the customer over time.

MOLY XL 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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