



PRO-SPEC IV XP

SYNTHETIC BLEND



As tolerances become tighter and demands from OEM's become stricter, the need has become greater for diesel engine oils to provide maximum protection over an extended period. Positioned as a leader in the specialty lubricants industry, Texas Refinery Corp has once again raised the standard on performance-enhancing diesel engine oils.

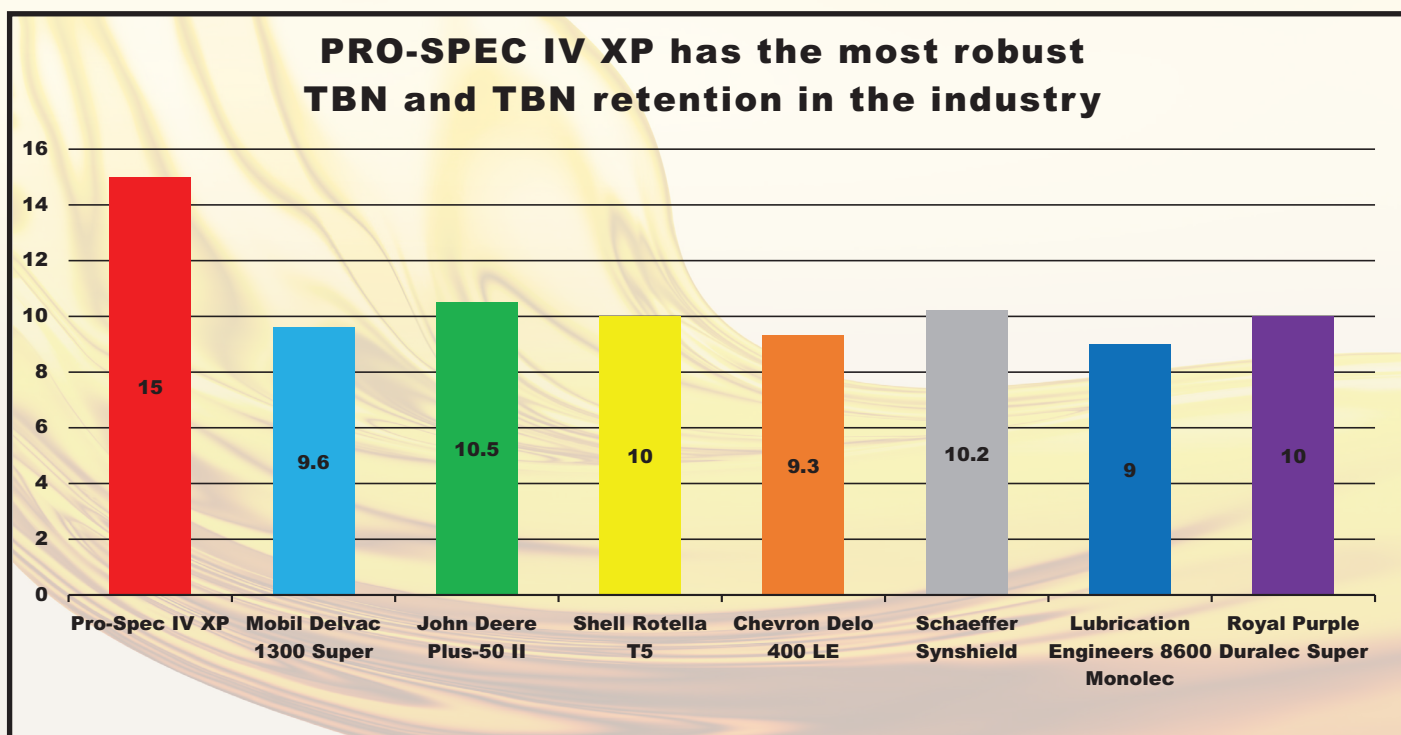
Reformulated to meet the increasing demands, PRO-SPEC IV XP SYNTHETIC BLEND engine oil provides next level protection and performance capabilities unseen in CJ-4 engine oils. PRO-SPEC IV XP SYNTHETIC BLEND engine oil will provide an extra pep to on-highway low emission diesel engines with after treatment devices requiring a CJ-4 engine oil, on-highway pre-2007 diesel engines, Tier 4 off-highway diesel engines and pre-Tier 4 off-highway diesel engines.

The current standard of ultra-low sulfur diesel (15ppm) for on-highway and off-highway equipment has led many manufacturers to lower the Base Number (BN) of their engine oil. Their belief is that the lower sulfur content negates the need for a higher BN. Through countless tests and years of success in the field, Texas Refinery Corp believes that a higher BN and BN retention are still vital to counteracting the increased acidity found in engines using the EGR and SCR technology systems.

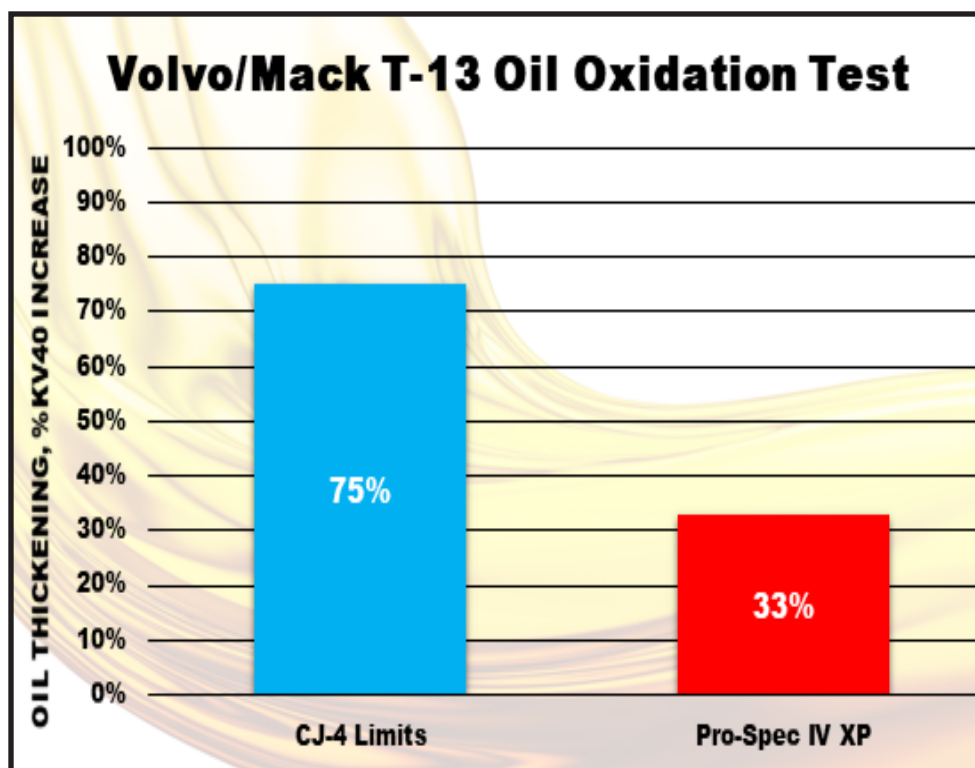
To take your diesel engine the extra mile, PRO-SPEC IV XP SYNTHETIC BLEND contains a boosted BN of 15 and a BN retention package. Maintaining a healthy engine starts with a healthy engine oil. PRO-SPEC IV XP SYNTHETIC BLEND's BN performance package keeps the acids at bay, so the equipment can play!

PRO-SPEC IV XP SYNTHETIC BLEND is **The Right Choice** to keep equipment doing what it should be...making you money.

PRO-SPEC IV XP SYNTHETIC BLEND Is Formulated With A BN 43% Higher Than The Leading Competitor

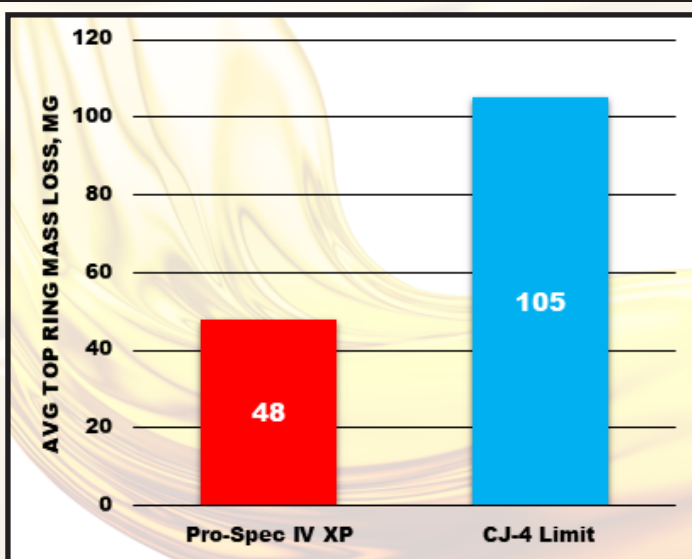
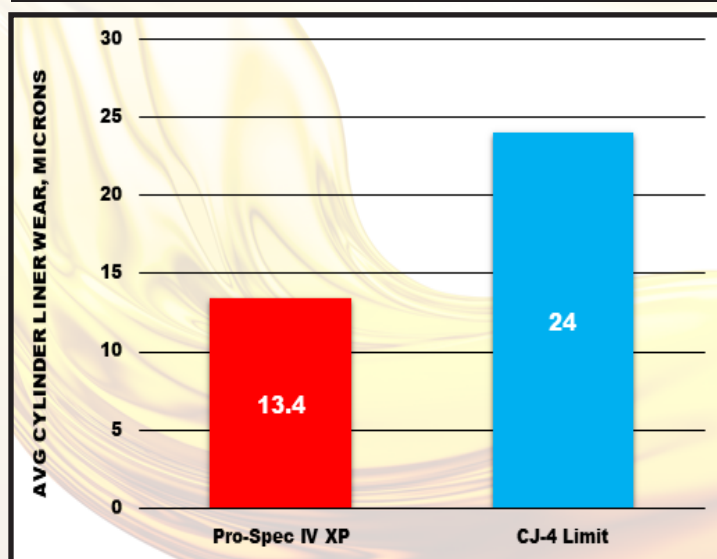


PRO-SPEC IV XP SYNTHETIC BLEND is fortified with anti-oxidants designed to resist acidification and thickening during use, in the presence of high temperatures. Thickened engine oil can lead to premature engine failure and loss of performance. PRO-SPEC IV XP reduces thickening by 56% over the conventional CJ-4 engine oils, helping to extend drain intervals and boost performance.

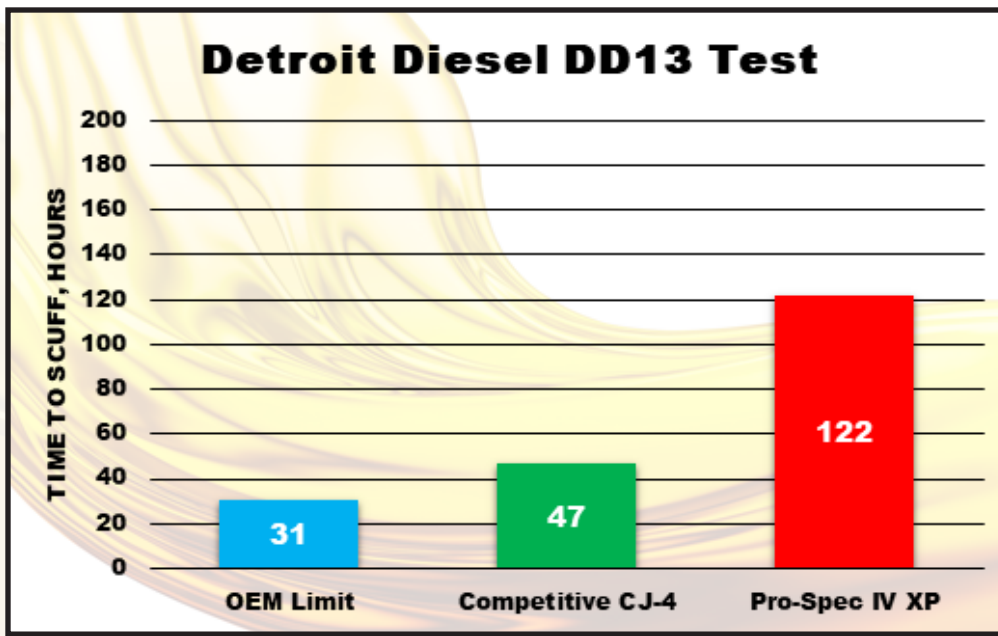


The Volvo/Mack T-13 Engine Test is a new test that investigates the oxidation stability of diesel engine oils at high temperatures. The test is run at 266°F for 360 hours.

Mack T-12 Engine Test



PRO-SPEC IV XP SYNTHETIC BLEND engine oil provides over 44% better protection against cylinder liner wear and a 54% reduced loss in top ring mass. This level of protection against wear rates caused by soot generation saves downtime and increases the life of the engine.



Cylinder liner scuffing can lead to unwanted problems and shorter engine oil life. PRO-SPEC IV XP SYNTHETIC BLEND helps extend drain intervals and keeps the engine running at maximum efficiency by providing a higher level of protection against abrasive wear.

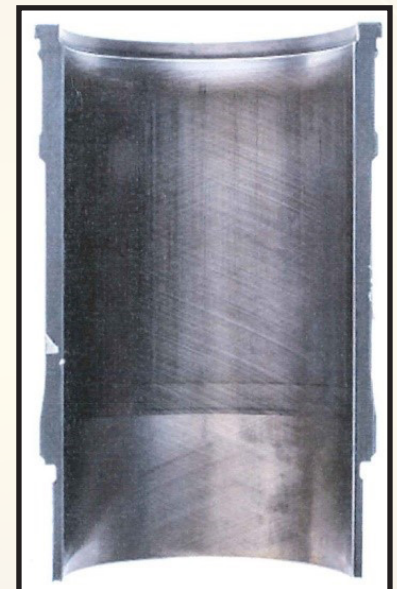
PRO-SPEC IV XP SYNTHETIC BLEND engine oil protects the cylinder liners from severe scuffing over four times longer than the leading competitor. In the DD 13 Test, though the cylinder liner tested with PRO-SPEC IV XP showed signs of scuffing after 122 hours, the oil was run to a minimum of 200 hours. Note that after 200 hours, the honing marks are still visible on the liner tested with PRO-SPEC IV XP, whereas the liner tested with the competitive oil shows signs of severe fatigue at 47 hours. Increased protection from wear can help the engine maintain peak efficiency for the task at hand.

Competitive CJ-4



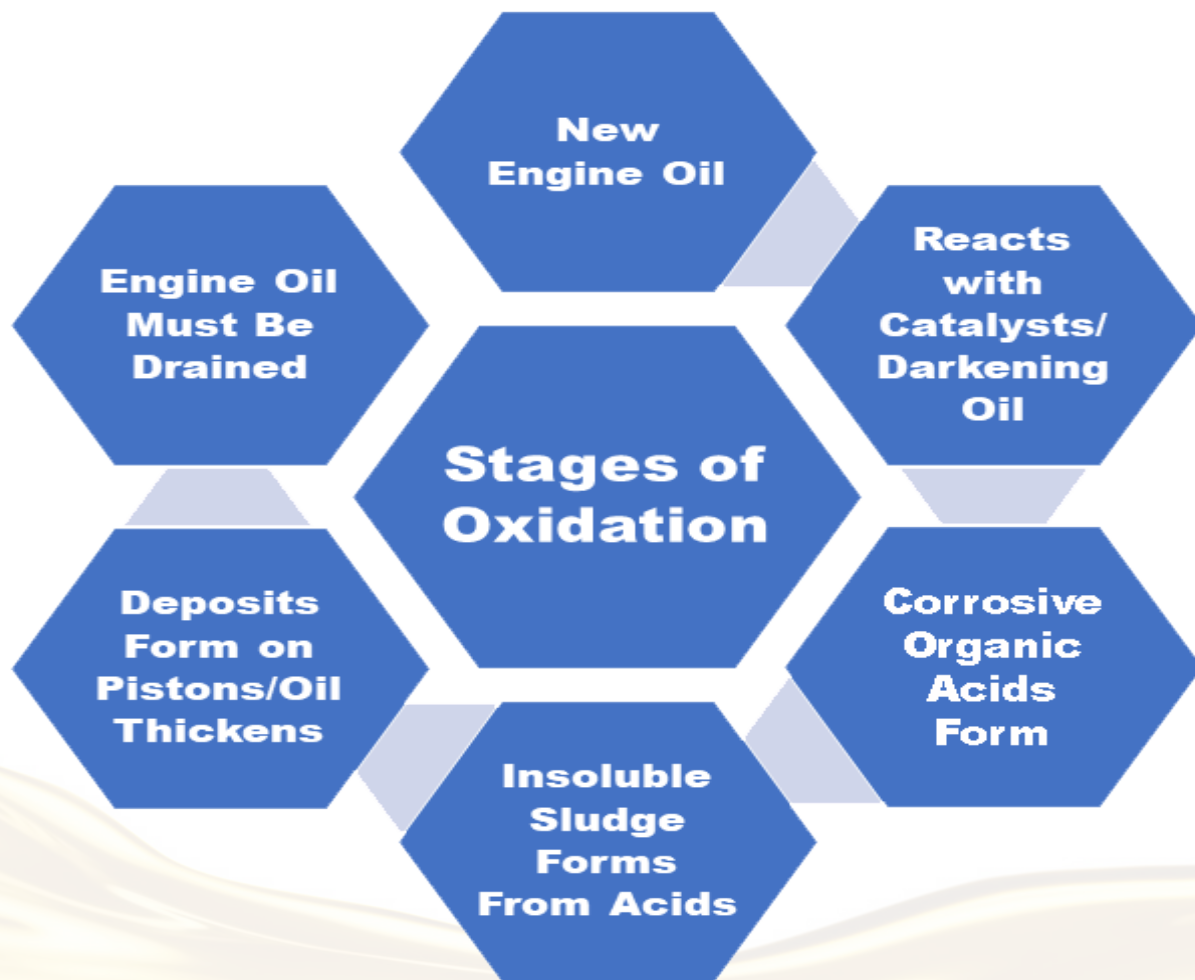
Severely scuffed liner after 47 hours

TRC Pro-Spec IV XP

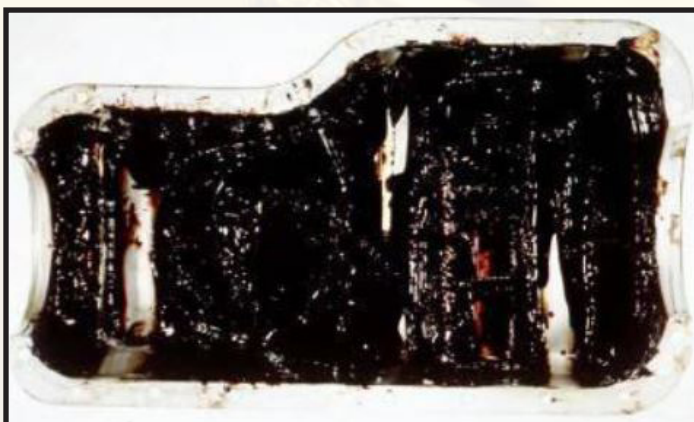


Limited scuffing after 200 hours

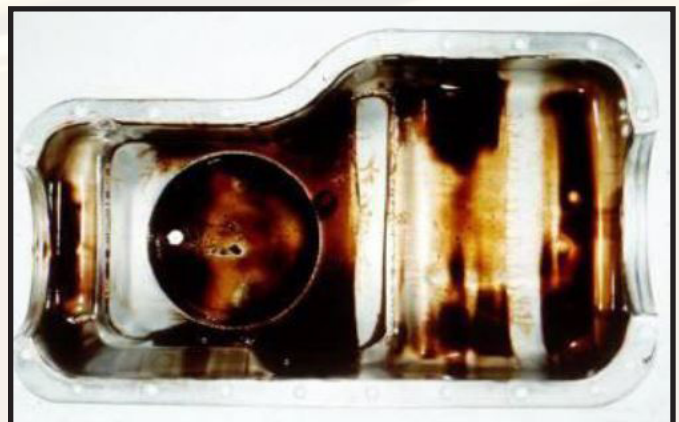
Scuffing May Lead To Loss Of Compression, Efficiency, And Power



Oxidation of engine oil contributes to shortened oil life and premature engine failure. As the engine oil encounters catalysts such as heat or oxygen, chemical reactions occur, darkening the oil and leading to the formation of corrosive acids. Those acids will combine to form an insoluble sludge that thickens the oil and aids in deposit formation on the pistons. PRO-SPEC IV XP SYNTHETIC BLEND is engineered with a powerful detergent chemistry and an anti-oxidant package to neutralize acid formation, control soot formation, reduce oil consumption, and maintain engine cleanliness.



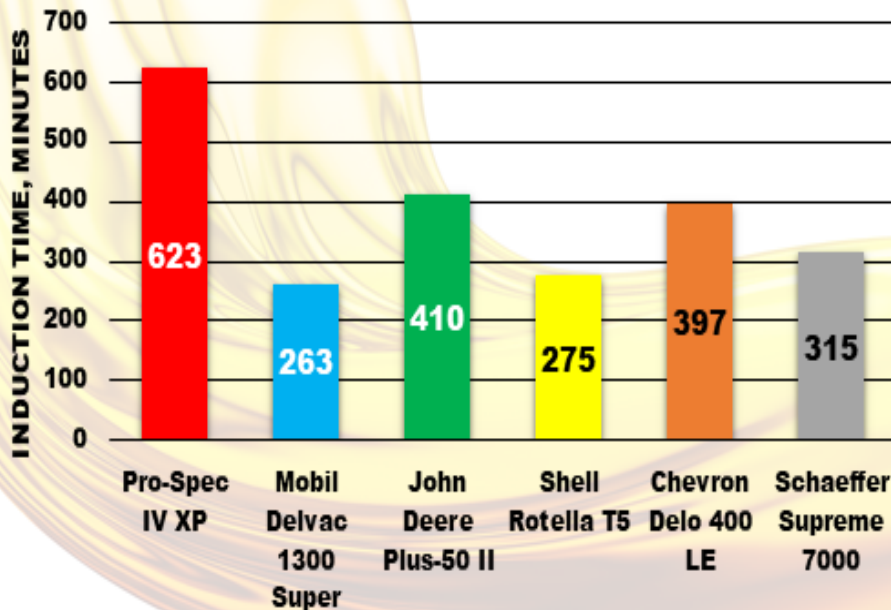
Sludge formation in engine pan due to use of conventional CJ-4 engine oil.



PRO-SPEC IV XP's anti-oxidant chemistry eliminates sludge formation.

Greater Protection Against Oxidation Can Lead To Extended Drain Intervals

TFOUT Oxidation Stability

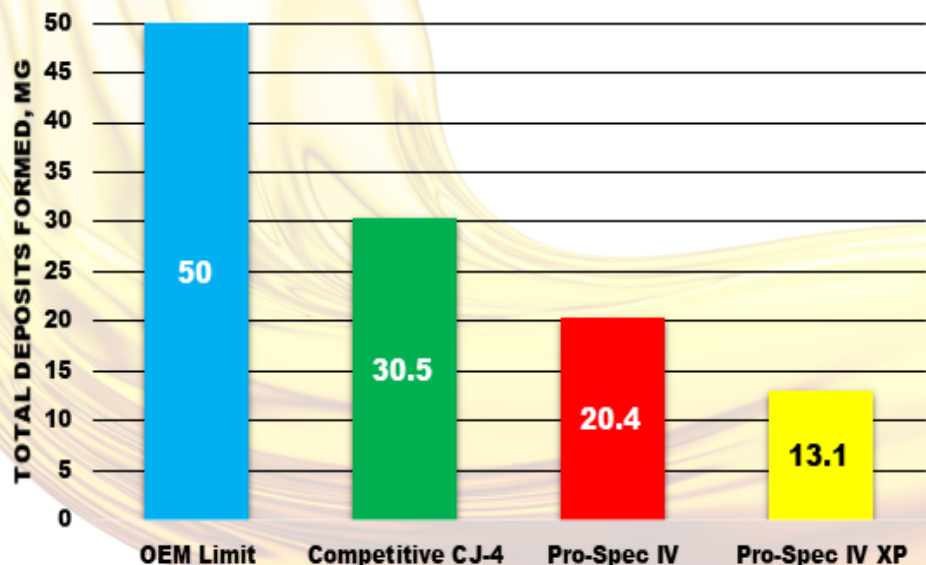


Resisting oxidation is important for extending the life of diesel engine oils. PRO-SPEC IV XP SYNTHETIC BLEND outlasts conventional and specialty oils by over 50%. Greater protection against oxidation can lead to extended drain intervals and a cleaner running engine.

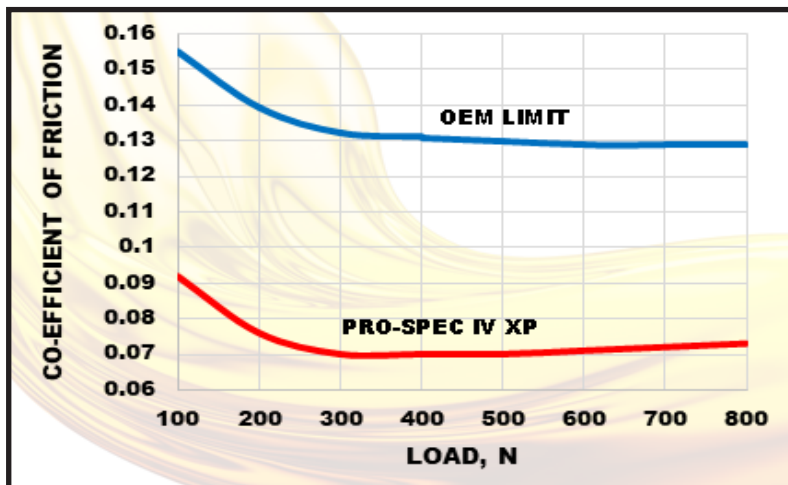
PRO-SPEC IV XP SYNTHETIC BLEND Reduces Deposit Build-Up By 75% Over Conventional Oils

Deposit build-ups can negatively impact the pumpability of the engine oil and reduce the operational power of the engine. Keeping the ring belt and piston ring areas clean and free of deposits is critical for keeping equipment out of the shop. PRO-SPEC IV XP SYNTHETIC BLEND is reformulated to reduce deposits 36% better than Pro-Spec IV.

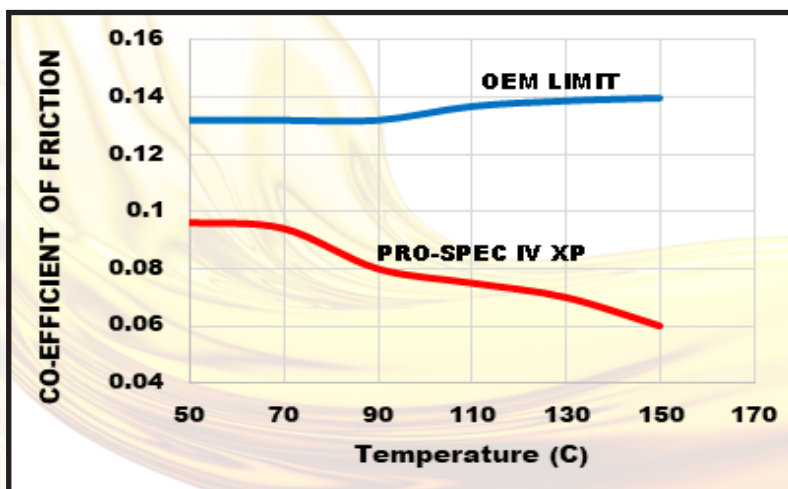
TEOST Oxidation Test



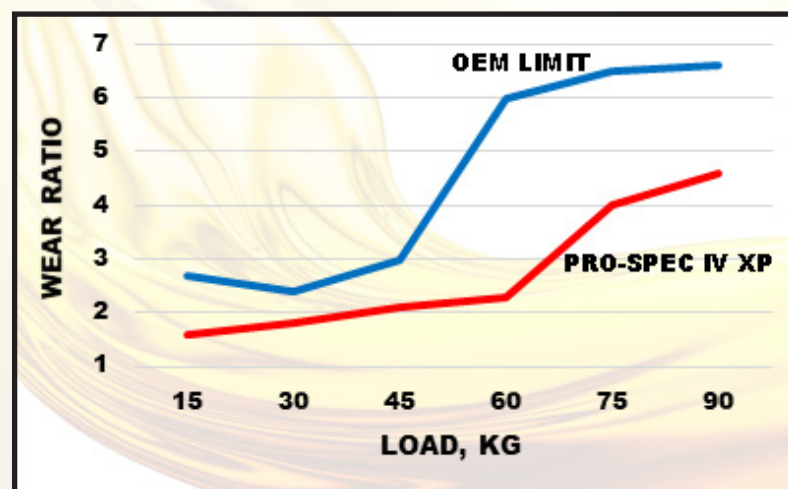
Protect Your Engine In Extreme Conditions With MOLY XL PRO-SPEC IV XP SYNTHETIC BLEND



When extreme conditions are present, MOLY XL PRO-SPEC IV XP SYNTHETIC BLEND provides an extra layer of protection for engines. Formulated with a unique liquid molybdenum compound, MOLY XL PRO-SPEC IV XP SYNTHETIC BLEND provides unmatched anti-wear protection. As the load on the engine increases, the moly compound is activated and significantly reduces wear and friction.



Increased temperatures inside an engine can cause premature fatigue and wear, negatively impacting performance and fuel efficiency. As temperatures rise, MOLY XL PRO-SPEC IV XP SYNTHETIC BLEND reduces the amount of friction experienced inside the engine. Reduced friction allows for cooler operating temperatures and greater horsepower for getting the job done.



The addition of the liquid molybdenum compound to MOLY XL PRO-SPEC IV XP SYNTHETIC BLEND prevents the metal surfaces of the engine from contacting each other. MOLY XL PRO-SPEC IV XP SYNTHETIC BLEND provides a reduced rate of wear when compared to conventional oils.

**Reduce Friction, Increase Fuel Economy, and
Reduce Operating Temperatures with
MOLY XL PRO-SPEC IV XP SYNTHETIC BLEND.**

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.

		15W/40	10W/30
D-287	API Gravity at 60°F, Typical	27/29	27/29
D-287	Specific Gravity @ 60°F	.87	.86
D-92	Flash Point, °F, COC, Minimum	400°F (204°C)	385°F (196°C)
D-97	Pour Point, °F, Typical	-30°F (-34°C)	-35°F (-37°C)
D-5293	Viscosity @ -25C, Cold Cranking Simulator cP	7000 max	-----
D-5293	Viscosity @ -30°C, Cold Cranking Simulator cP	-----	-----
D-4684	Viscosity @ -25°C, Mini Rotor Viscosimeter-TP1 cP	25,000	-----
D-4684	Viscosity @ -30°C, Mini Rotor Viscosimeter-TP1 cP	-----	21,500
D-446	Viscosity @ 100°C, cSt, Typical	15.5	12.4
D-446	Viscosity @ 40°C, cSt, Typical	119.0	82.0
D-2270	Viscosity Index	150	150
D-874	Sulfated Ash, Wt. %, Maximum	1.68%	1.68%
D-2896	Base Number, mg KOH/g	15	15
D-892	Foam Tendency/Stability:		
	Sequence I	0/0	0/0
	Sequence II	0/0	0/0
	Sequence III	0/0	0/0
	Calcium, Wt. %, Typical	0.45	0.45
	Zinc, Wt. %, Typical	0.12	0.12
	Nitrogen,Wt. %, Typical	0.18	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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