



# MOLY XL PRO-SPEC® IV Synthetic Blend

- **INDUSTRY LEADING 14 TBN**
- **MEETS AND EXCEEDS CJ-4/SM**
- **IMPROVES FUEL ECONOMY**
- **PROTECTS DURING EXTREME CONDITIONS**
- **CONTAINS FINEST BASE OILS AND ADDITIVES**

The ground-breaking technology formulated into MOLY XL PRO-SPEC® IV SYNTHETIC BLEND provides one engine oil to protect on-highway low emission diesel engines with after treatment devices, as well as pre-2007 diesel engines, and off-road engines. MOLY XL PRO-SPEC® IV SYNTHETIC BLEND is a new generation engine oil that provides emission system durability, prevents catalyst poisoning and particulate filter blocking, while at the same time controls soot thickening, oil consumption and wear, which is prevalent in EGR engines. Using the finest base oils and additives to produce MOLY XL PRO-SPEC® IV SYNTHETIC BLEND has allowed Texas Refinery Corp. to formulate an oil like none other.

## **MOLY XL PRO-SPEC® IV Industry Leading 14 TBN**

MOLY XL PRO-SPEC® IV SYNTHETIC BLEND has an industry leading Total Base Number (TBN) of 14. The majority of the new motor oils produced for CJ-4 usage have a TBN value of 8 to 10. MOLY XL PRO-SPEC® IV SYNTHETIC BLEND is made with TRC's proprietary TBN booster in order to build an oil with a TBN of 14. MOLY XL PRO-SPEC® IV SYNTHETIC BLEND has been specially formulated to provide the ultimate in protection, reducing corrosive engine wear and extending the life of your engine. MOLY XL PRO-SPEC®



*MOLY XL PRO-SPEC® IV helps provide longer engine life for a variety of equipment through careful selection of base oils and careful blending of superior additives.*

IV SYNTHETIC BLEND is not just an industry-leading high 14 TBN oil. It is a superior oil when it comes to TBN retention, thus making MOLY XL PRO-SPEC® IV SYNTHETIC BLEND the oil to use for extended drain intervals.

## **MOLY XL PRO-SPEC® IV Meets and Exceeds CJ-4/SM**

MOLY XL PRO-SPEC® IV SYNTHETIC BLEND was designed with 2007 and newer engines in mind, while keeping backward compatibility an important goal. MOLY XL PRO-SPEC® IV SYNTHETIC BLEND is suitable for API CI-4 and CJ-4 diesel fueled engines, as well as meeting API SL and SM gasoline engine requirements. MOLY XL PRO-SPEC® IV SYNTHETIC BLEND also meets and exceeds Mack EO-O Premium Plus 07, Cummins CES-20081, Detroit Diesel Power Guard 93K217, Volvo VDS-4 and ACEA E7.

## **MOLY XL PRO-SPEC® IV Improves Fuel Economy**

MOLY XL PRO-SPEC® IV SYNTHETIC BLEND possesses excellent friction reduction properties. With both friction and wear minimized, your engine is better protected at start-up and

during operation. In addition, your engine will run cooler and your engine will produce greater horsepower for getting the job done right. With MOLY XL PRO-SPEC® IV SYNTHETIC BLEND, your engine will run more efficiently and save money and energy. It will offer a measurable improvement in fuel economy.

## MOLY XL PRO-SPEC® IV Protects During Extreme Conditions

MOLY XL PRO-SPEC® IV SYNTHETIC BLEND gains several advantages from the MOLY XL package. The moly particles prevent metal surfaces from coming in contact with one another, especially during start-up or during extreme pressure conditions. Protection against extreme pressure means extended equipment life and reduced downtime expenses. MOLY XL PRO-SPEC® IV SYNTHETIC BLEND goes one step further with its

exclusive MOLY XL package by providing additives, which serve as copper de-activators. This special formulation means extra protection for all copper and/or bronze parts in an engine. MOLY XL PRO-SPEC® IV SYNTHETIC BLEND offers advanced technology for advanced protection.

## MOLY XL PRO-SPEC® IV Contains Finest Base Oils and Additives

MOLY XL PRO-SPEC® IV SYNTHETIC BLEND has been the result of tremendous changes taking place in industry specifications. In just the last few years, base oils, additives, fuels and engine designs have all undergone tremendous changes. Texas Refinery Corp. has gathered the very finest base oils and additives to produce MOLY XL PRO-SPEC® IV SYNTHETIC BLEND. This engine oil provides superior performance in all four-stroke diesel engines.

# SPECIFICATIONS

## MOLY XL PRO-SPEC® IV SYNTHETIC BLEND MOTOR OIL

Meets and/or exceeds MIL-L-2104E, MIL-L-46152E, CID AA 52039, Caterpillar TO-2, Caterpillar ECF-3, Caterpillar ECF-2, Cummins CES 20077, Cummins CES 20078, Cummins CES 20081, Detroit Diesel Power Guard 93K214, Power Guard 93K218, Mack EO-N Premium Plus, Mack EO-N Premium Plus 03, Mack EO-O Premium Plus 07, Navistar, Allis Chalmers, Series 3, GM6094M, Ford M2C153E, M2C171C, M2C171D, ACEA E9/E7/E5/E3/B3/A3, MAN 271, MAN 3275, Mercedes Benz MB 228.31 and MB229.1, MTU Type 1, MTU Type II, Volvo VDS-2, Volvo VDS-3, Volvo VDS-4, Global DHD-1, Chrysler MS-6395-D, Renault RLD-3, Jaso DH-2, Allison C4, A.P.I. CF-4, CG-4, CH-4, CI-4, CI-4 Plus, CJ-4, SH, SJ, SL, SM.

ASTM TEST METHOD	TESTS	15W/40
	Product Code	#6785
D287	API Gravity	27/29
D287	Specific Gravity at 60°F, Typical	.87
D-92	Flash Point, °F, COC, Minimum	400°F. (204°C.)
D-97	Pour Point, Typical	-30°F. (-34°C.)
D-5293	Viscosity @ -25°C, 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	- - -
D-446	Viscosity @ 100°C, cSt, Typical	15.5
D-446	Viscosity @ 40°C, cSt, Typical	119.0
D-2270	Viscosity Index	150
D-874	Sulfated Ash, Wt. %, Maximum	0.99%
D-2896	Total Base Number, mg KOH/g	14
D-892	Foam Tendency/Stability:	
	Sequence I	0/0
	Sequence II	0/0
	Sequence III	0/0
	Calcium, Wt. %, Typical	0.13
	Zinc, Wt. %, Typical	0.13
	Nitrogen, Wt. %, Typical	0.23
	Magnesium, Wt. %, Typical	0.09

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

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

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