



DIESEL ENGINE OIL

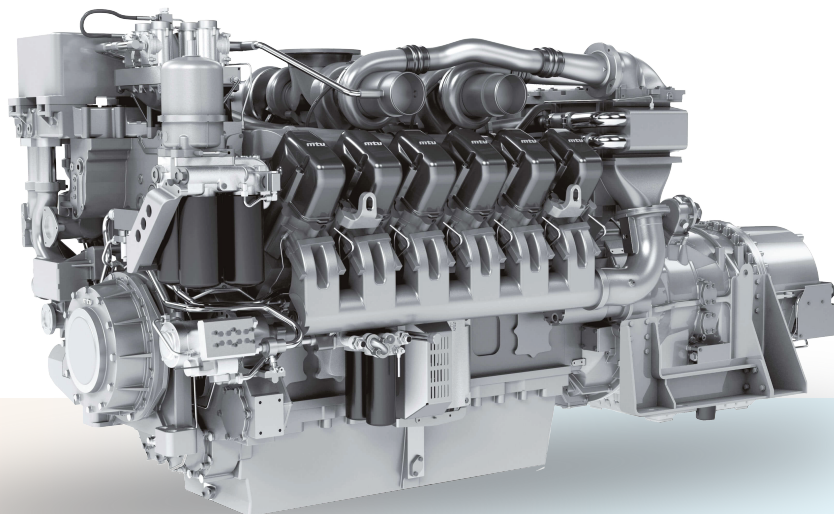
15W-40 PXP SYN BLEND HD (CK-4)

Permian Extreme Pressure (PXP) technology is a proprietary Positive-Charged (+) EP package that creates a lubricant boundary film on metal surfaces to reduce friction, corrosion, and damage from contact wear, abrasives, and heat while improving performance and viscosity life under high pressure and high heat conditions.

PXP Diesel Engine Oils safely extend oil drain intervals, and lifespan while reducing total cost of ownership in continuous duty offroad engines used in oilfield equipment. Proprietary Total Base Number (TBN) additive improves TBN retention in extended drain applications and ensures excellent acid neutralization. Cutting edge low-ash additive technology provides superior soot dispersancy, deposit control and reduces filter plugging.

BENEFITS & ADVANTAGES

- Extreme Pressure Protection
- PXP (+) Charged Oil Bonds to Metal Surfaces
- High Load Carry Capacity
- Superior Anti- Scuff / Anti-Wear
- High TBN & Dispersant Package
- 500 Degree Temperature Rating
- Acid Neutralization in High Sulfur Diesel Fuels
- Extended Drain Intervals
- Improved Post Use Oil Analysis
- Disperses Soot / Reduced Filter Plugging
- Rust, Oxidation, & Corrosion Resistant
- Superior Deposit and Sludge Control
- Gasket & Seals Conditioner
- Excellent Sheer Stability
- Proprietary Low Ash Additive Slows Filter Plugging
- Improved Performance with DPF & EGR Systems



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TYPICAL PROPERTIES

TEST PARAMETERS	METHOD	TYPICAL
Specific Gravity @ 15 °C API Gravity @ 15 °C	ASTM D4052	0.86
Density @ 15C (Lbs / Gal)		0.874
Kinematic Viscosity @ 40 C, cSt.	ASTM D7042	106.2
Kinematic Viscosity @ 100 C, cSt.	ASTM D7042	15.1
Viscosity Index	ASTM D2270	151
Flash Point, Fahrenheit	ASTM D93	405
Pour Point Fahrenheit	ASTM D97	-31
TBN, mg KOH/g	ASTM D5984	12.6
Appearance / Color		Clear, Amber
Sulphated Ash wt%	ASTM D874	0.5

MEETS OR EXCEEDS

- API CK-4, CJ-4 Plus, CH-4, CG-4, CF-4, CF/SM SL
- J a c o DH-2
- Caterpillar ECF-2 ECF-3
- Cummins
- CES 20086
- MAN M3575
- MB Approval 228.31
- MTU Category 2.1
- Volvo VDS-4