



Technical Product Information

XPD PLUS MOTOR OIL

SUPER LONG DRAIN 14 TBN DIESEL ENGINE OIL MEETING API SERVICE CI-4/SL

Product Description: XPD PLUS MOTOR OIL is a super premium heavy duty diesel engine oil designed to meet the warranty requirements of most manufacturers of diesel engines equipped with EGR valves and was specifically developed for diesel engines operating on high sulfur fuels. The high alkaline reserve (TBN) effectively protects bearings and other engine surfaces from the corrosive effect of acids formed by the combustion of high sulfur fuels. Recommended for extended drain service when suggested by original equipment manufacturer.

This motor oil is a blend of highly refined base oils and specially selected additives designed to provide excellent performance in all recommended applications. Contains effective detergent-dispersant to keep sludge and varnish deposits to a minimum. Additionally fortified with oxidation-corrosion inhibitors. High temperature antiwear additives and foam inhibitors, to protect vital engine parts from scuffing and protect bearings from corrosion.

Features:

- High TBN/Alkaline Reserve - Effectively neutralizes corrosive acids to protect bearings and other vital engine surfaces.
- Minimizes ash deposits in combustion chamber and valve surfaces.
- Highly oxidative stable - protects engine against sludge and varnish deposits.
- High alkaline permits extending drain interval to maximum allowed by engine manufacturer
- 14 TBN exceeds Caterpillar's 10 TBN minimum for surface when sulfur content of diesel fuel is unknown.
- Designed to meet 2002 emission standards and beyond.

Typical Uses:

- XPD Plus Motor Oil SAE 15W-40 exceeds the Service Classifications CI-4/SL, SAE grades 30 & 40 exceed CF/CF-2/SL. These products are recommended for diesel engines using high sulfur fuels.
- Also recommended for use as "long drain" motor oil. Especially cost effective when used in conjunction with an effective used oil analysis program.
- Meets Mack EO-N Premium Plus, EO-M, EO-M Plus, EO-L Plus and EO-L requirements.
- Recommended for all turbo-charged engines where manufacturer specified a CI-4, CH-4, CG-4, CF, or MIL-L-2104D or MIL-L-2104E level oil.
- Meets Volvo VDS requirements (VDS-2, VDS-3)

Typical Specifications:

Grades, SAE	15W-40	30	40
Gravity °API	30.0	29.8	29.4
Flash Point, °F.	440	450	460
Fire Point, °F.	485	480	515
Pour Point, °F.	-25	+10	+10
Viscosity:			
SUS @ 100° F.	503	432	636
SUS @ 210° F.	76	66	80
cSt. @ 40° C.	109	92.5	137
cSt. @ 100° C.	14.6	12.0	15.5
Viscosity Index	139	122	116
Color, D-1500	3.0	3.0	3.0
Sulfate Ash, Wt.%	1.67	1.67	1.67
Zinc, Wt.%	0.13	0.13	0.13
TBN, D-2896	14	14	14

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY