

High-Performance Severe Duty Fleet Oil Product Information Engineered for engines designed with or without emission control technology

PM412 EnviroTurboLife is the latest generation, high-performance diesel engine oil formulated with a synthetic base and the latest additive technology available, producing unmatched performance capabilities in a lubricant that is required for compliant diesel engines equipped with DPF or exhaust after treatment equipment designed to lower emissions.

EnviroTurboLife is the prime recommendation for all four-stroke naturally aspirated and turbo-charged engines fitted with DPF and or engines requiring a low SAPS-(Sulphated Ash Phosphorus Sulphur) 15W40 HDDO - Heavy Duty Diesel Oil.

PM412 meets and exceeds every international specification for top performance and long service life. Given the universal application of this lubricant and its widespread use across industry in meeting OEM's requirements, a higher antiwear package has been engineered in the formulation, above the previous CJ-4 specification but which still meets the low SAPS requirement.

Modern engine design involves lower tolerances which aids in reducing oil consumption and in turn reduces unused oil/additive replenishment rates, resulting in more stress upon the lubricant. Pistons have also undergone changes resulting in the lubricants closer proximity to higher combustion temperatures and oxidation rates. Despite these design changes PM412 provides robust protection against increased oxidation rates and viscosity thickening, soot induced thickening, valve train wear, ring and liner wear and piston deposits.

PM Lubrication's **XPR**, (Xtra Protection Reserve) provides operators with the capacity to safely extend drain intervals and not compromise on performance or component life. PM Lubrication recognises operators need help in achieving an increased ROI and recommends the adoption of depth-media filtration to extend lubricant and component life.

Typical Properties:

SAE Viscosity	15W40
Kinematic Viscosity	
Viscosity @ 40°C	110 cSt
Viscosity @ 100°C	15 cSt
TBN	9.9
TAN	2.4
Pour Point °C	-39
Flash Point °C	226
Colour	Red
V.I.	138
Ash, Sulphated	0.99%
Density @ 15°C kg/L	0.888

Exceeds Service Classifications:

- API CK-4; CJ-4; CI-4+;CI-4; SN
- ACEA E9
- Caterpillar ECF-3,ECF-2,ECF1a
- Cummins CES 20086
- Detroit Diesel DFS922K222
- Deutz DQC 111.10LA
- Ford WSS-W2C171-F1
- Mack EOS-4.5EO-O PremiumPlus, EO-N PP,EO-M
- EO-M PLUS,EO-K,EO-L, EO-L PLUS
- Mercedes Benz 228.31; V2016.1
- MAN 3275;M3575, M3775
- MTU Type 2.1
- Renault Truck RLD-4
- Volvo VDS 4.5 VDS 3 & VDS2
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Benefits:

- Reduces Friction
- Exceptional Cleanliness
- Lower Wear Rates
- Extended Drain Periods
- Prolonged Service Life
- Resists Viscosity Thickening

**PM412 is an excellent
fleet engine oil**

Why PM Lubrication?

Guaranteed Cost Effective Lubrication is achieved with the adoption of premium quality lubricants and micro-filtration, significantly extending lubricant life and componentry.

Available in 1,000L, 205L, 20L, 5L Containers

