



Product Data Sheet

OPTIMA D6 (SHPD)

Product Description:

Today's technology trend of diesel engine is towards more environment conscious products with less gas emission and longer overhaul period. Coming along with these development, new devices like the Exhaust Gas Recirculation (EGR) rely much more on the performance of the engine oil being used. Optima D6 (SHPD), using only the hydro-treated base oil to maximize the protection under severe operating conditions, is well positioned to address those needs.

Blended from hydro-treated base stocks and a high technology core additive package, Optima D6 (SHPD) Engine oil is truly a universal heavy duty diesel oil meeting the stringent European ACEA standard as well as American API performance. This means Optima D6 (SHPD) is simply the top player for both the modern North American engines and the top-tier West European engines.

Applications / Benefits:

- ▣ Minimizes oil consumption.
- ▣ Satisfying most diesel engine OEM oil demands.
- ▣ Hydro-treated base, inherent thermal-stability and anti-oxidation property
- ▣ Particular suitable for the modern diesel engine equipped with EGR.

Typical Characteristics:

Test Description	Method	15W40	15W50	20W50
SAE Viscosity Grade	SAE J 300	15W40	15W50	20W50
Specific Gravity @ 15 °C	ASTM D 4052	0.879	0.881	0.883
Flash Point, °C	ASTM D 92	230	232	238
Pour Point, °C	ASTM D 97	-27	-27	-21
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	113.8	146.5	177.7
cSt @ 100°C	ASTM D 445	15.1	18.5	19.2
Viscosity Index	ASTM D 2270	138	142	124
TBN, mgKOH/g	ASTM D 2896	11.0	11.0	11.0
Color	ASTM D 1500	≤ 4.0	≤ 4.0	≤ 4.0

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Specifications, Approvals & Recommendations:

- API CI4/SL
- ACEA E7-16
- Caterpillar ECF-1a
- Caterpillar ECF-2
- Cummins 20077
- Cummins 20078
- Detroit Diesel DDC 93K215
- Deutz DQC II
- Deutz DQC III
- GLOBAL DHD-1
- JASO DH-1
- Mack EO-M Plus
- Mack EO-N
- MAN M3275
- Mercedes-Benz 228.3
- MTU Type 2
- Renault Truck RLD-2
- VOLVO VDS 3

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