

SPX SUPER HD DF

DUAL FUEL ENGINE OIL FOR DIESEL & MOBILE NATURAL GAS APPLICATIONS

SPX Super HD DF provides excellent protection for engines operating under varying loads and service conditions. It is designed for use in 2010 and newer diesel engines burning Ultra Low Sulfur Diesel (ULSD) and requiring a low emission diesel engine oil that meets EPA regulations and is compatible with exhaust after treatment systems. The formulation is backwards serviceable for use in pre-2010 diesel engines as well. SPX Super HD DF also meets requirements for mobile natural gas fueled engines, as well as gasoline fueled engines, allowing use as a versatile fleet engine oil. SPX Super HD DF is formulated using high quality base oils and advanced performance additives engineered to meet critical industry and OEM standards.

Advantages

- Good soot control for protection against abrasive wear and soot-induced oil thickening
- Good resistance to viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Protects against rust, bearing corrosion, and wear
- Compatible with modern exhaust after treatment systems including Selective Catalytic Reduction (SCR), Diesel Particulate Filter (DPF), and Exhaust Gas Recirculation (EGR)

Applications

- Naturally aspirated and turbocharged four-stroke diesel engines in which the API CK-4 service category is recommended
- Older diesel equipment without emissions control systems
- Off-highway construction, earth moving, and mining equipment
- Older gasoline applications where the API SN service category is recommended
- Spark-ignited natural gas engines

Specifications

SPX Super HD DF is licensed and certified for:

- API CK-4/SN, CJ-4, CI-4 Plus

SPX Super HD DF is suitable for use where the equipment manufacturer specifies:

- ACEA E9-2016, E7
- Caterpillar ECF-3
- Cummins CES 20086, CES 20092
- Detroit Diesel DFS 93K216, 93K222
- Mack EO-S 4.5
- MAN 3775
- Mercedes Benz 228.31
- MTU Category 2.1
- JASO DH-2
- Renault RLD-3
- Volvo VDS 4.5



Heavy Duty



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TYPICAL PROPERTIES

SAE Grade	15W-40
Specific Gravity @ 60°F	0.860
Density, lbs/gal @ 60°F	7.17
Flash Point (COC), °C (°F)	240(464)
Pour Point, °C (°F)	-39(-38)
Viscosity	
cSt @ 40°C	114
cSt @ 100°C	15.3
Viscosity Index	141
Cold Cranking Viscosity, cP @ (°C)	5750(-20)
Sulfated Ash, ASTM D874, wt%	0.9
Total Base Number (TBN), ASTM D2896	10.0

Minor variations in typical properties data are to be expected in normal manufacturing.

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet (SDS).



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