

# SPX SUPER HD FULL SYN CK-4

FULL SYNTHETIC DIESEL ENGINE OIL FOR INDUSTRIAL AND MOBILE EQUIPMENT

SPX Super HD Full Syn CK-4 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 Full Syn CK-4 is formulated with high quality full synthetic base oils which minimizes viscosity thickening at low ambient temperatures and assists with cold start applications. SPX Super HD Full Syn CK-4 has good soot dispersancy, wear protection and oxidation resistance to minimize deposit formation and ensure engine cleanliness and extended equipment life.

## Advantages

- Good soot control for protection against abrasive wear and soot-induced oil thickening
- Excellent resistance to viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Protects against rust, bearing corrosion, and wear
- Improved performance at colder operating temperatures
- 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

## Specifications

SPX Super HD Full Syn CK-4 is recommended for use where the equipment manufacturer specifies:

- API CK-4, CJ-4, CI-4 Plus
- Caterpillar ECF-1, ECF-2, ECF-3
- Cummins CES 20081, CES 20086
- Detroit Diesel DFS 93K222
- Ford WSS-M2C171-F1
- Mack EO-O Premium Plus, EO-S 4.5
- Volvo VDS-4, VDS 4.5



Heavy Duty



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## TYPICAL PROPERTIES

SAE Grade	5W-40
Specific Gravity @ 60°F	0.859
Density, lbs/gal @ 60°F	7.16
Flash Point (COC), °C (°F)	172(342)
Pour Point, °C (°F)	-40(-40)
Viscosity	
cSt @ 40°C	102
cSt @ 100°C	14.4
Viscosity Index	145
Cold Cranking Viscosity, cP @ (°C)	6260(-30)
Sulfated Ash, ASTM D874, wt%	1.00
Total Base Number (TBN), ASTM D2896	11.1

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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