

## Product Data Sheet

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### DESCRIPTION

Pro Performance HD Synthetic Blend CK-4/SN combines premium base stocks with next-generation additive technology to produce our most fuel-efficient cleanest burning, low-ash heavy duty engine oil to date. It meets or exceeds nearly all the next generation OEM specifications including those from Ford, Cummins, Detroit Diesel, Mack, Volvo, Renault, Mercedes, MAN and Deutz.

Pro Performance HD Synthetic Blend CK-4/SN Synthetic Blend motor oils protect engines with Emission Controls, EGR engines, as well as older engines. It is even recommended by leading heavy equipment manufacturers such as John Deere, Kubota, Massey Ferguson, JJ Case, Allis Chalmers, and International Harvester.

This groundbreaking low-ash technology provides improved wear protection, deposit, and soot control, and improves oil consumption by neutralizing combustion by-products that cause harmful deposits. Pro Performance HD Synthetic Blend CK-4/SN is an extended drain capable engine oil that prevents viscosity loss from shearing and reduces friction leading to longer engine life and improved fuel economy.

Its high film strength makes Pro Performance HD Synthetic Blend CK-4 fluids suitable for both on and off-road driving conditions. It can be recommended for new engines requiring CK-4 fluid and is backward compatible with API CK-4, CJ-4, CI-4 PLUS, CI-4, and CH oils.

### PERFORMANCE BENEFITS

- Low-ash formulation extends catalyst life
- 2x better corrosion control than the new API standards
- Protects cylinders up to 80x more than Daimler standards
- Improved protection from thermal and oxidative breakdown
- Excellent anti-wear, anti-foam, and anti-rust properties
- Up to 63% better soot control than previous CJ-4 formulations
- Protects piston rings up to 2.5x better than its CJ-4 predecessor
- Extremely shear stable preventing viscosity loss
- Compatible with both diesel and gasoline engines
- Improved TBN retention over previous diesel engine oils

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**RECOMMENDED APPLICATIONS:**

*API CK-4, CJ-4, CI-4+, CI-4, CH-4  
API SN(15W-40\*)  
ACEA E9-16  
CUMMINS CES20086, 81  
CAT ECF-3, ECF-2  
DETROIT DIESEL DFS93K222, 218  
FORD POWERSTROKE (WSS-M2C171-F1)  
JOHN DEERE Tier IV Engines  
MACK EOS-4.5  
VOLVO VDS-4.5  
ALLISON TES-439  
RENAULT RLD-4  
MB 228.31  
MAN 3275 / 3575  
MTU 2.1  
DEUTZ DQC III-10 LA  
GLOBAL DHD-1  
JASO DH-2*

**Typical Characteristics**

<b>Property</b>	<b>10W30</b>	<b>15W40</b>
SAE Grade		
Viscosity @40° C cST	81.6	118
Viscosity @100° C cST	11.85	15.4
Viscosity Index	139	140
Pour Point, C (F)	-42 (-44)	-38 (-36)
Flash Point, Deg. C (F)	220 (428)	229 (444)
Sulfated Ash, m%	1.0	1.0
Total Base Number, mg KOH/g	9.7	9.7
Phosphorous, m%	0.113	0.113