



Heavy Duty Motor Oil 15W-40 - API CK-4/SN

Technical Data Sheet

Description

Maximum Performance Premium HDK 15W-40 Motor Oil is specifically engineered to meet the stringent performance latest requirements of API CK-4 service category for EGR / EGP diesel engines. Formulated with the highest quality state-of-the-art additive technology and Group II base oils, **Maximum Performance Premium HDK 15W-40 Motor Oil** meets and exceeds API CK-4/SN, backwards compatible with CJ-4, CI-4+, CI-4 and CH-4, is designed to maximize fuel economy with excellent wear protection needed for today engines. **Maximum Performance Premium HDK 15W-40 Motor Oil** also has major OEM Engine oil approvals- see list below

Features

- Sludge, Soot and Filter Plugging Protection
- Thermal and Corrosion Protection
- Excellent High Temperature Characteristics
- Excellent Overall Wear Protection
- Injector Screw Wear Protection
- Mixed Fleet Operations

Specifications

- API Service CK-4/SN
- Cummins CES 20086 (OEM Approved), 20071, 20081
- Mack EOS-4.5 (OEM Approved), EO-O Premium Plus, EO-N
- Detroit Diesel DFS 93K222 (OEM Approved), PGOS 93K218
- Caterpillar ECF-3, ECF-2
- Volvo VDS-4.5 (OEM Approved), VDS-4, VDS-3
- Renault VI RLD-4 (OEM Approved)
- MB 228.31
- MAN 3275
- MAN 3575
- MTU 2.1
- Deutz DQC III-10LA
- JASO DH-2

Properties

Product Code	02233
SAE	15W-40
Viscosity cSt @ 40°C	113.77
Viscosity cSt @ 100°C	15.34
Viscosity Index	141
Flash Point, °F	414
Pour Point, °C	-32
Specific Gravity	.864
TBN	10
Sulfated Ash, ASTM D 874, %m	1.0
Color, ASTM D 1500	< 4.5
CCS Viscosity, ASTM D 5293, cP	4,853 (-20°C)



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OEM Diesel Engine Oil Drain Recommendation Summary

OEM	Service	API CJ-4	API CK-4
Cummins	Light (> 6.5 MPG) Normal (5.5 – 6.5 MPG) Severe (<5.5 MPG)	40,000 30,000 20,000	50,000 35,000 25,000
Detroit Diesel	Efficient Long Haul (>6.0 MPG) Long Haul (>6.0 MPG) Short Haul (5.1- 5.9 MPG) Severe (< 5 MPG)	50,000 35,000 25,000	75,000 (DD15) / 65,000(DD13) 60,000 (DD15) / 55,000 (DD13) 45,000 (DD15) / 40,000 (DD13) 35,000
Mack / Volvo	Line Haul (6.1 – 7.0 MPG) Regional Haul (4.8 – 6.0 MPG) Heavy Haul (3.8 -4.8 MPG)	45,000* 35,000* 25,000	55,000 40,000 30,000
Caterpillar		Application Specific	Application Specific
Navistar	Light (>6.5 MPG) Moderate (5.0 – 6.5 MPG) Severe (<5.0 MPG)	40,000 30,000 18,000	40,000 30,000 18,000
PACCAR	Normal, <20% Idle Normal, > 20% Idle Severe	60,000	75,000 50,000 30,000
GM (Duramax 6.6L)			7,500**/**
Ford (Powerstroke 6.7L)			3,000 – 10,000**/**
* Refer to OEM service literature for official drain details ** Idle > 30%, use next shorter ODI *** Follow Oil-Life Monitor			