



# HEAVY DUTY ENGINE OIL 15W-40

## DIESEL/GASOLINE ENGINES

Work Horse Oil Heavy Duty 15W-40 CK-4/ SN engine oils are formulated with Group II base oils and highly advanced additive systems. These fluids are some of the most rigorously and extensively tested fluids we have ever developed. Our additive system will be supported by over 100 Million miles of field testing in various applications and conditions, including: Long and Short Haul Fleets, Off Road Equipment, Commercial and Public Buses. Modern diesel engine oils must meet the demands of higher engine power as well as increased emission controls including: Exhaust Gas Recirculation (EGR), Diesel Particulate Filters (DPF), and Selective Catalytic Reduction (SCR). This Premium Heavy Duty engine oil formulation meets all service categories for ALL diesel engines, including the capability to provide outstanding performance for older diesel engines, reducing the need to inventory multiple engine oils.

- Protects all diesel engines with emission controls, and is backwards compatible for older engines
- Excellent piston cleanliness and sludge control performance
- Neutralized and dispersed combustion by-products to prevent harmful deposits and corrosive wear
- Increased pumpability in cold temperatures provides superior wear protection during cold starts
- Improved oxidation performance by 60% when compared to API CJ-4 technology
- High film strength stands up to high temperature, high load conditions
- Proven ability to provide Extended Drain intervals

*Always consult and follow manufacturer's guide for proper SAE grade. Never exceed recommended drain interval without close monitoring through oil analysis.*

Work Horse™ is a new breed of lubricants designed to stand up to brutal workloads and a wide range of challenging conditions. Born from a 90-year legacy of proven performance and premium products, Work Horse lubricants are formulated using the latest technology and advanced additives to deliver superior results and the protection you demand. Extensive testing in both on-road and off-road environments ensures all Work Horse products meet and exceed major manufacturers' service requirements. Your hard-working equipment needs hard-working oil.



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DIESEL/GASOLINE ENGINES

## Typical Characteristics

PRODUCT	15W-40
Gravity, °API	30.1
Specific Gravity @ 60°F (15.6°C)	0.8756
Viscosity @ 40°C cSt	116.2
Viscosity @ 100°C cSt	15.56
Viscosity Index	141
Pour Point °C (°F)	-36°C (-33°F)
Cold Cranking Simulator at (°C), cP	5832 (-20)
High Temperature / High Shear Vis at 150°C, cP	4.2
Color	3.5
Zinc, wt. %	0.12
Phosphorus, wt. %	0.225
Calcium, wt. %	0.225
Sulfated Ash, wt. %	0.32
Nitrogen, wt. %	0.184
Pumping Viscosity at (°C), cP	20,000 (-25)
Total Acid Number, mgKOH/g	2.9
TBN, mgKOH/g	10



## Performance Level

API SN, SM, SL, SJ, SH, SG, SF, SE, SD, SC  
 API CK-4  
 Chrysler/Fiat MS-10902  
 API CJ-4  
 John Deere  
 API CI-4 Plus, CI-4, CH-4, CG-4, CF-2, CF  
 Ford WSS-M2C171-F1  
 Ford WSS-M2C171-E  
 Mack EO-O Premium Plus, EO-N Premium Plus 03,  
 EO-M Plus, and prior  
 Mack EOS-4.5  
 CAT ECF-3, ECF-2, ECF-1-a  
 Cummins CES 20081, 20077, 20076  
 Cummins CES 20086  
 Detroit Diesel 93K218, 93K215, 93K214  
 Detroit Diesel 93K222  
 CID A-A-52306, MIL-PRF-2104G  
 MAN 3275, 270  
 MAN 3575  
 MB 228.3, 228.31  
 MTU Type I, Type II  
 MTU 2.1  
 Renault RLD-4  
 Volvo VDS-4, 3, 2  
 Volvo VDS-4.5  
 Global DHD-1  
 JASO DH-2  
 ACEA E9, E7  
 Suitable for use in applications specifying Allison  
 TES-439  
 Allison C-4

## Available In:

Qt, 2.5 Gal, 55 Gal Drum, 330 Gal, Bulk