



Premium Plus Heavy Duty Diesel CK-4 Engine Oil

STARFIRE Premium Plus Heavy Duty Diesel Engine Oil is specifically engineered to meet the latest requirements for EGR / EGP engines. 15W-40 meets or exceeds API CK-4/SN, and is backwards compatible with CJ-4, CI-4 PLUS, CI-4 and CH-4. 10W-30 meets or exceeds API CK-4, and is designed to maximize fuel economy in today's current engine. Both oils meet MACK EOS-4.5, EO-O Premium Plus, EO-N, Volvo VDS-4.5, VDS-4, VDS-3, Caterpillar ECF-3, ECF-2, Cummins CES20086, CES 20081, CES20077, Detroit Diesel 93K222, 93K218, 93K215, Daimler MB228.31, MTU Category 2.1 and Renault RLD-4, RLD-3.

STARFIRE's robust formulation includes:

- **Highest quality Group II+ base oils** with exceptional purity and lubricating properties that heavy-duty applications demand.
- **State-of the-art performance additives** including viscosity index improvers, detergents, dispersants, and anti-wear agents provide maximum protection against breakdown and engine wear.
 - Unmatched varnish, sludge and carbon deposit control
 - Low valve train, ring and linear wear
 - Extra protection against bearing and bushing corrosion
 - Boosted oxidation control to minimize oil thickening
 - Excellent high-temperature stability
 - Controls oil thickening and provides good filterability with newer, high soot producing, emission-controlled engines

Typical Properties	10W-30	15W-40
API Service	CK-4	CK-4
Kinematic Viscosity		
cSt @ 40°C	81.7	113.9
cSt @ 100°C	12.2	15.6
Viscosity Index	145	145
CCS Viscosity		
cP @ -20C	6,200	5,500
Flash Point, °C	237	226
Pour Point, °C	-39	-33
Specific Gravity @ 60°F	.0865	.0869
Color (ASTM)	L 4.0	L 4.0
TBN	10.0	10.0
Sulfated Ash, wt%	1.0	1.0