



Synthetic Blend 15w40 Engine Oil

STARFIRE Synthetic Blend 15w40 Engine Oil is specially engineered for heavy duty diesel and gasoline engines operating under all service conditions, including today's emission controlled engines with EGR and Diesel particulate filters using Ultra-Low Sulfur Diesel Fuel (ULSD) and Low Sulfur Diesel (LSD). It provides excellent oxidation control and high detergency and dispersancy keeps engines and pistons clean and soot suspended in oil despite longer drain intervals and increased soot loading.

STARFIRE Synthetic Blend 15w40 Engine Oil meets or exceeds performance requirements for all automotive engines currently in use where a SAE 15W-40 that meets API CJ-4/SN is specified.

Recommendations

- Mack EO-O Premium Plus 07
- Volvo VDS-4
- DDC Power Guard
- GLOBAL DHD-1
- Detroit Diesel 93K218
- Cummins CES 20081, 20077, 20076
- Renault RLD-3
- Caterpillar ECF-1a, ECF-2, ECF-3
- Mack EO-N Premium Plus 03, Mack EO-N Premium Plus, EO-M Plus, EO-M
- Mercedes Benz 228.3
- Man 3275, DDC/MTU Series 2000/4000 category 1 and 2 engine performance
- Volvo VDS-4, VDS-3, DHD-1
- ACEA E9-08, E7-04, E5 and E3
- JASO DH-2
- Allison C-4
- Caterpillar TO-2

PRODUCT DATA	TEST METHOD	TYPICAL
Viscosity: cSt @ 40°C cSt @ 100°C	D445	115 15.5
Viscosity Index	D2270	142
Pour Point, °C (°F)	D97	-40 (-40)
Flash Point °C (°F)	D92	238 (460)
Neutralization No., TBN-E	D2896	10
Sulfated Ash, wt.%	D874	1.0
Cold Crank Simulator, cP	D5293	6210/-20°C
Mini-Rotary Viscometer TP1, cP	D4684	19700/-25°C
HTHS @ 150°C, cP	D4683	4.2