



Lubriguard™ Full Synthetic SAE 5W-30 CK-4 Diesel Engine Oil

LUBRIGUARD FULL SYNTHETIC SAE 5W-30 CK-4 DIESEL ENGINE OIL – CK-4 is formulated for use in High-Speed four-stroke cycle diesel engines designed to meet 2017 model year on-highway and Tier 4 non-road exhaust emission standards as well as for previous model year diesel engines. It is fully formulated with synthetic base stocks, including PolyAlphaOlefin (PAO). It provides improved fuel economy, compared to conventional SAE 15W-40 oils. It is formulated to provide improved wear protection, deposit and oil consumption control, soot-related viscosity control, prevention of viscosity loss from shearing, used oil low-temperature pumpability and protection from thermal and oxidative breakdown. It also contains a sophisticated additive system that is specifically designed to improve the protection of advanced emission control systems such as diesel particulate filters.

Always consult your owner's manual for proper application.

LUBRIGUARD FULL SYNTHETIC SAE 5W-30 CK-4 DIESEL ENGINE OIL meets API Service Classification CK-4. It is suitable for use in applications calling for Mack EOS-4.5, EO-O Premium Plus, EO-N, Volvo VDS-4.5, VDS-4, VDS-3, Cummins CES 20086, 20081, Renault RLD-4, RLD-3, ECF-2, Detroit Diesel DFS 93K222, DFS 93K218, Mercedes-Benz p228.31, and MAN 3575.

Benefits

- Excellent soot busting viscosity control
- Improved fuel economy, compared to conventional SAE 15W-40 oils
- Exceptional wear protection for longer engine life
- Superior low temperature properties helps speed cold starts
- Year round formula for extremes of heat and cold



Warren Oil Company, LLC

Dunn, NC 28334; Benton, AL 36758; San Antonio, TX 78210;
Marion, IL 62959; Johnstown, PA 15909; West Memphis, AR 72301



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Typical Characteristics

LUBRIGUARD FULL SYNTHETIC 5W-30 CK-4 DIESEL ENGINE OIL		5W-30
API CK-4		X
Caterpillar ECF-3, ECF-2		X
Cummins CES 20086, 20081		X
Mack EOS-4.5, EO-O Premium Plus, Mack EO-N		X
Mercedes-Benz p228.31		X
MAN 3575		X
ACEA E7 and E9		X
Volvo VDS-4.5, VDS-4, VDS-3		X
DFS 93K222, DFS 93K218		X
Renault RLD-4, RLD-3		X
Product Data	Test Method	Typical
Viscosity @ 40° C, cST	D445	69.9
Viscosity @ 100°C, cST	D445	11.6
Viscosity Index	D2270	161
Pour Point °C (°F)	D97	-36 (-33)
Flash Point °C (°F)	D92	229 (440)
Neutralization No., TBN	D2896	11
Sulfated Ash, wt.%	D874	1.0
Cold Crank Simulator, cP	D5293	6330/-30°C
Mini-Rotary Viscometer TP1, cP	D4684	21600/-35°C
High-Temp/High Shear Viscosity, cP @ 150°C	D4683	3.5
Product Code Number		
	Bulk	704400
	Drum	
	275 Gal Tote	



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