

# WARCO

# SAE 10W-30 Heavy Duty Engine Oil

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WARCO Advanced CK-4 Heavy Duty Synthetic Blend SAE 10W-30 Diesel Engine Oil is a high-performance engine oil designed to meet 2017 and newer on-highway and Tier 4 exhaust emission standards. It provides enhanced protection against wear, oxidation, shear viscosity loss, low and high-temperature degradation, soot-related thickening and protection against particulate filter blocking and catalyst poisoning. It outperforms conventional motor oil and is recommended for naturally aspirated, turbocharged or supercharged diesel, gasoline, or propane truck, sport utility vehicle, and passenger car engines.

WARCO Advanced CK-4 Heavy Duty Synthetic Blend SAE 10W-30 Diesel Engine Oil meets or exceeds American Petroleum Institute (API) CK-4 / SN and all previous service classifications. It conforms to DFS 93K222 specification and is Volvo VDS-4.5, Mack EOS-4.5, and Renault VI RLD-3 approved. Furthermore, it has been field tested to be comparable to most American, Asian, and European manufacturers' standards including: ACEA E7-16, E9-16, FORD WSS-M2C171-F1, CES 20086, CES 20087, CAT ECF-3, Renault RLD-4, MB 228.31, KOMATSU, and many other OEM's specifications that recommend a synthetic blend API CK-4 engine oil.

## Benefits and Applications

- For diesel and gasoline engines
- Volvo VDS-4.5, Mack EOS-4.5, and Renault VI RLD-3 approved
- Demonstrated fuel economy improvement and retention
- Enhanced oxidative stability, emission system and wear protection
- Protection against soot-related viscosity increase
- Low- and high-temperature property control

## Typical Characteristic HD 10W-30 CK-4 Synthetic Blend

SAE GRADE	Heavy Duty	10W-30
API SERVICE		CK-4 / SN
API Gravity	ASTM D287	32.42
Flash Point, COC °C/°F	ASTM D92	235 / 455
Pour Point, °C/°F	ASTM D97	-39 / -38.2
Viscosity @ 40°C, cSt	ASTM D445	82.18
Viscosity @ 100°C, cSt	ASTM D445	11.98
Viscosity Index	ASTM D2270	140
CCS, mPa-sec °C max	ASTM D5293	7000 @ -25
Total Base No. TBN	ASTM D2896	9

Test Method ASTM - Typical test data are average values only. Minor variations, which do not affect performance, may occur.

### API CK-4 / SN

Volvo VDS-4.5, Mack EOS-4.5, and Renault VI RLD-3 approved.  
Conforms to DFS 93K222 and FORD WSS-M2C171-F1, ACEA E7-16, ACEA E9-16



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HANDLING AND SAFETY INFORMATION - Refer to WARCO (SDS) Safety Data Sheets for proper handling and safety information. Use the same care and handling as for any petroleum product. Nothing herein shall be deemed to constitute a warranty, express or implied, that said information or data are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data or products can be used without infringing patents of third parties.