



ADVANCED HD SYNTHETIC BLEND ENGINE OILS

USGLOBAL CK-4 Advanced Heavy Duty SAE 10W-30 / 15W-40 Synthetic Blend Diesel Engine Oils are high-performance engine oils designed to meet 2017 and prior model year on-highway and Tier 4 exhaust emission standards. They provide enhanced protection against wear, oxidation, shear viscosity loss, low- and high-temperature degradation, soot related thickening as well as protection against particulate filter blocking and catalyst poisoning. USGLOBAL **CK-4** synthetic blend engine oils meet or exceed the American Petroleum Institute (API) CK-4 / CJ-4 service classification and are compatible with all prior API classifications. They have been field tested to be comparable to most American, Asian and European manufacturers' standards including ACEA E7-12 / E9-12, CAT ECF-3, Mack EOS-4.5, Ford WSS-W2C171-F1, Cummins CES 20086, Detroit DDC93K222, Volvo VDS 4.5, Renault VI RLD-4, MB 228.31, MAN 3575, Deutz DQC III-10 LA, and to meet the requirements of JASO DH-2 and many other OEM's specifications where a synthetic blend API CK-4 engine oil is recommended.

USGLOBAL FA-4 Advanced Heavy Duty SAE 10W-30 Synthetic Blend Diesel Engine Oil is a high-performance engine oil specially formulated to meet 2017 model year GHC emission standards and to provide greater fuel efficiency and extended drain intervals. It is blended to a high temperature high shear (HTHS) viscosity range and provides enhanced protection against wear, oxidation, shear viscosity loss, low- and high-temperature degradation, and soot related thickening. USGLOBAL **FA-4** SAE 10W-30 engine oil meets or exceeds the American Petroleum Institute (API) FA-4 service requirement and has been field tested to be comparable to most American, Asian and European manufacturers' standards including Cummins CES 20087, Detroit Diesel DDC93K223, and to meet the requirements of JASO DH-2 and many other OEM's specifications for the latest generation of cleaner, more fuel-efficient on-highway diesel engines.

NOTE: FA-4 oils are not interchangeable nor backward compatible with CK-4, CJ-4, CI-4 with CI-4 PLUS, CI-4, or CH-4 oils. Refer to individual engine manufacturer recommendations to determine if API FA-4 oil is suitable for use in your engine.

Applications

- CK-4 SAE 10W-30 and 15W-40 meet or exceed API service classifications CK-4
- FA-4 SAE 10W-30 meets or exceeds API service classifications FA-4
- 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 Characteristics - Advanced HD Synthetic Blend Engine Oils - V161212

SAE GRADE		10W-30	10W-30	15W-40
API SERVICE		FA-4	CK-4 / SN	CK-4 / SN
Specific Gravity @ 60°F	ASTM D287	0.8692	0.8711	0.8728
Flash Point, COC °C/°F	ASTM D92	231 / 447.8	225 / 437	229 / 444.2
Pour Point, °C/°F	ASTM D97	-38 / -36.4	-37 / -34.6	-32 / -25.6
Viscosity @ 40°C, cSt	ASTM D445	62.78	78.31	116.7
Viscosity @ 100°C, cSt	ASTM D445	9.497	11.64	15.41
Viscosity Index	ASTM D2270	132	141	138
CCS, cP	ASTM D5293	5,541 (-25)	6,033 (-25)	5,158 (-20)
Total Base No. (TBN)	ASTM D2896	10.1	10.1	10.2



MADE IN  THE U.S.A.

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

HANDLING AND SAFETY INFORMATION - Refer to USGLOBAL (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.