

## PURUS® SYNTHETIC BLEND SAE 10W-30 API CK-4 ENGINE OIL

Manufactured with virgin base oils and licensed additive systems

**DESCRIPTION:** **PURUS® SAE 10W-30 API CK-4 Synthetic Blend Diesel Engine Oil** 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. This oil is formulated to use in all applications with diesel fuels ranging in sulfur content up to 500 ppm. **PURUS® SAE 10W-30 API CK-4 Synthetic Blend Diesel Engine Oil** is designed to provide enhanced protection against oil oxidation, viscosity loss due to shear, and oil aeration as well as protection against catalyst poisoning, particulate filter blocking, engine wear, piston deposits, degradation of low- and high-temperature properties, and soot-related viscosity increase.

**APPLICATIONS:** **PURUS® SAE 10W-30 API CK-4 Synthetic Blend Diesel Engine Oil** meets API Service Classification CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4. This product has OEM Approvals for Ford® Specification WSS-M2C171-F1, Cummins® CES 20086, Detroit™ DFS 93K222, Mack® EOS-4.5, Volvo® VDS-4.5 and Renault® RLD-4. It also meets or exceeds requirements for Caterpillar® ECF-3, ECF-2, Cummins® CES 20081, Daimler MB228.31, Detroit™ DFS 93K218, Mack® EO-O Premium Plus, EO-N, MAN M3575, MTU Category 2.1, Renault® RLD-3, and Volvo® VDS-4, VDS-3 and ACEA E9, ACEA, E7.

- PERFORMANCE BENEFITS:**
- Protects emission control systems
  - Outstanding oxidation stability
  - Synthetic Blend formulation
  - Universal product for mixed fleet operations
  - Excellent low temperature properties helps speed cold starts

TYPICAL PROPERTIES*:	Product Data	Test Method	Typical
	@ 40° C, cST	D445	82.0
	@ 100°C, cST	D445	12.3
	Viscosity Index	D2270	146
	Pour Point °C (°F)	D97	-33 (-27)
	Flash Point °C (°F)	D92	238 (460)
	Sulfated Ash, wt. %	D874	1.0
	Cold Crank Simulator, cP	D5293	5970/-25°C
	Mini-Rotary Viscometer TPI, cP	D4684	21900/-30°C
	High Temperature High Shear, HTSH		
	@150°C, cP	D4683	3.5
	TBN	D2896	10



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## PURUS<sup>®</sup> SYNTHETIC BLEND SAE 10W-30 CK-4 ENGINE OIL

<b>SAE Grade</b>	<b>10W-30</b>
API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4	X
Ford <sup>®</sup> Specification WSS-M2C171-F1	X
Caterpillar <sup>®</sup> ECF-3, ECF-2	X
Cummins <sup>®</sup> CES 20086, 20081	X
Mack <sup>®</sup> EOS-4.5, EO-O Premium Plus, and EO-N	X
MAN M3575	X
Volvo <sup>®</sup> VDS-4.5, VDS-4, VDS-3	X
Detroit <sup>™</sup> DFS 93K222 & DFS 93K218	X
Daimler MB228.31	X
MAN M3575	X
MTU Category 2.1	X
Renault <sup>®</sup> RLD-4, RLD-3	X
ACEA E9-2012, E7	X



\*Due to continual product research and development, the information contained herein is based on products purchased in the U.S. and subject to change without notification. Typical properties may vary slightly.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all of our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either AIOD or its affiliates for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult your local AIOD Distributor if you require any further information.

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