

## PURUS® SYNTHETIC SAE 5W-40 API CK-4/ SN ENGINE OIL

Manufactured with highly refined base oils and industry leading additive chemistry

**DESCRIPTION:** PURUS® Synthetic SAE 5W-40 API CK-4/ SN Engine Oil is fully formulated for use in high-speed four-stroke cycle premium 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® Synthetic SAE 5W-40 API CK-4/SN 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.

**APPLICATION:** PURUS® Synthetic SAE 5W-40 API CK-4/SN Diesel Engine Oil meets API Service Classification CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4/ SN. This product has OEM Approvals for Ford® Specification WSS-M2C171-F1, 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 20086 and 20081, Daimler MB228.31, Detroit™ DFS 93K218, Deutz DQC-111, Mack® EO-O Premium Plus, EO-N, MAN M3575, MTU Category 2.1, Renault® RLD-3, Volvo® VDS 4, VDS-3, PACCAR PX and MX and ACEA E9 and ACEA E7.

**PERFORMANCE  
BENEFITS:**

- Protects emission control systems
- Outstanding oxidation stability
- Excellent low temperature properties- helps cold starts
- Universal product for mixed fleet operations

**TYPICAL  
PROPERTIES\*:**

Viscosity		
@ 40° C, cST	D445	88.7
@ 100° C, cST	D445	14.4
Viscosity Index	D2270	169
Pour Point °C (°F)	D97	-40 (-40)
Flash Point °C (°F)	D92	238 (460)
TBN	D2896	11
Sulfated Ash, wt. %	D874	1.0
Cold Crank Simulator, cP	D5293	6240/-30° C
Mini-Rotary Viscometer TP1, cP	D4684	31300/-35° C

## PURUS® SYNTHETIC SAE 5W-40 API CK-4/ SN ENGINE OIL

Manufactured with highly refined virgin base oils and licensed additive systems

SAE Grade	5W-40
API CK-4,CJ-4, CI-4 PLUS, CH-4 /SN	X
Caterpillar® ECF-3, ECF-2,	X
Cummins® CES 20086, 20081	X
Mack® EOS-4.5, EO-O Premium Plus, And EO-N	X
EO-N Premium Plus, EO-M Plus, EO-M	
Mercedes Benz 228.31	X
MAN 3575	X
ACEA E9-2016, E7	X
Volvo® VDS-4.5, VDS 4 and VDS-3	X
Detroit™ DFS 93K222 & DFS 93K218	X
MTU Category 2.1	X
Renault® RLD-4 , RLD- 3	X
Ford® WSS-M2C171-F1	X
PACCAR PX-7, PX-9, MX-11 and MX-13	X
Deutz DQC-111	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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