

# PURUS<sup>®</sup>

**CUT THE COST, NOT THE QUALITY.**  
"YOU CAN TAKE IT TO THE LAB."

## **PURUS<sup>®</sup> SYNTHETIC BLEND SAE 15W-40 CK-4/SN ENGINE**



### **DESCRIPTION**

**PURUS SAE 15W-40 API CK-4/SN Synthetic Blend Heavy Duty Diesel Oil** is formulated for use in high-speed turbocharged and fully aspirated four-stroke diesel engines. The heavy-duty engine oil meets Tier IV non-road emission standards and 2017 greenhouse compliance where a 15W-40 API CK-4 viscosity grade is recommended. The addition of full synthetic base stock provides outstanding low temperature flow, protects against wear, and extends drain intervals compared to conventional SAE 15W-40. PURUS is recommended for use in applications utilizing diesel fuels ranging in sulfur content up to 500 ppm.

**PURUS SAE 15W-40 API CK-4/SN Synthetic Blend Heavy Duty Diesel Oil is purpose built to meet these industry drivers and challenges:**

- Sustained engine oil resilience and complete lubrication protection including soot related viscosity increase, engine deposit control, corrosive wear, and oil oxidation in today's higher operating temperature engines.
- Optimum engine durability and fuel economy in a wide range of applications including mixed fleets, agriculture, mining, construction, and fleets with long idle time and stop and go operations.
- Low-Ash formulation for protection of exhaust aftertreatment, maintain fuel economy and extend DPF service intervals to reduce maintenance and downtime costs.

### **PERFORMANCE BENEFITS**

<b>INDUSTRY DRIVERS</b>	<b>PURUS 15W-40 SYN BLEND SUPPORTING TECHNOLOGY</b>	<b>PURUS BENEFITS PERFORMANCE ADVANTAGES</b>
<b><i>Sustained Engine Oil Resilience and Complete Lubrication Protection.</i></b> <ul style="list-style-type: none"><li>• Engine oil service intervals have steadily increased while at the same time oil consumption has decreased requiring heavy duty engine oils to achieve increased life and durability demands.</li></ul>	<b><i>PURUS Advanced Additive Technology</i></b> <ul style="list-style-type: none"><li>• Formulated to meet extended interval challenges</li><li>• Controls soot related viscosity increase that can cause premature oil filter plugging, decreased fuel economy</li><li>• Stable viscosity under high loads and longer service intervals resulting in superior shear stability</li></ul>	<b><i>Field Tested and Proven Million Mile Engine and Running Test</i></b> <ul style="list-style-type: none"><li>• Oil Drain Interval extended to 50,000 mile</li><li>• Piston deposit control that ensures engine and component reliability</li><li>• Always refer to OEM service interval recommendations</li></ul>
<b><i>Optimum Engine Durability and Engineered Oil Performance for Severe Duty</i></b> <ul style="list-style-type: none"><li>• Optimum engine durability and engineered oil performance for severe duty service</li><li>• Cleans engine deposits and controls oil consumption</li></ul>	<b><i>PURUS Advanced Additive Technology</i></b> <ul style="list-style-type: none"><li>• Specific additive chemistry combined with premium base stocks to deliver durability and fuel economy in diverse fleet applications</li><li>• Performance enhanced with synthetic base stock</li></ul>	<b><i>PURUS Benefits</i></b> <ul style="list-style-type: none"><li>• Engine protection at low temperature and cold starts</li><li>• Field tested and proven million-mile engine and running test— <a href="#">Scan QR code for Million Mile Video</a></li><li>• Specifically designed to meet or exceed current severe operating conditions of both on and off road HD diesel engines</li></ul>
<b><i>Longer Diesel Aftertreatment Warranty and Useful Life Periods</i></b> <ul style="list-style-type: none"><li>• Engine manufacturers are challenged with providing engine oils that promote longer engine aftertreatment useful life which are impacted by engine oil chemistry</li></ul>	<b><i>PURUS Balanced Additive Anti Clogging DPF Technology</i></b> <ul style="list-style-type: none"><li>• Balanced additive package with higher Magnesium &amp; Calcium additives vs. some competitive brands with lower Magnesium and higher Calcium additive systems</li><li>• Industry leader in reducing oil consumption</li></ul>	<b><i>PURUS Synthetic Blend 15W-40 provides the following benefits</i></b> <ul style="list-style-type: none"><li>• Balanced additive technology improves Diesel Particulate Filter (DPF) porosity and flow, which reduces clogging &amp; back pressure resulting in decreased fuel use</li><li>• Longer DPF life results in extended DPF service intervals, reduction in fuel economy loss from regenerations, and costly unit downtime.</li></ul>

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### APPLICATIONS

#### PURUS SAE 15W-40 API CK-4/SN Synthetic Blend Heavy Duty Engine Oil

##### OEM Approvals

- Cummins CES 20086
- Detroit Diesel DFS 93K222
- Ford Specification WSS-M2C171-F1
- Mack EOS-4.5
- Renault RLD-4
- Volvo VDS-4.5
- ACEA E9, E7
- Allison TES 439
- API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4, SN, SM, SL, SJ
- Caterpillar ECF-3, ECF-2
- Cummins CES 20081
- Daimler MB 228.31
- Detroit Diesel DFS 93K218
- Deutz DQC III-10 LA
- Global DHD-1
- JASO DH-2, DH-1
- Mack EO-0 Premium Plus, EO-N
- MAN M3775
- Mil-PRF 2104 Rev. H
- MTU Category 2.1
- Navistar TSI-99-12
- PACCAR PX-7, PX-9, MX-11, MX-13
- Renault RLD-3
- Volvo VDS-4, VDS-3



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### TYPICAL PROPERTIES\*

Viscosity at 40° C, cST	D445	116
Viscosity at 100° C, cST	D445	15.7
Viscosity Index	D2270	143
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	5250/-20°C
Mini-Rotary Viscometer TPI, cP	D4684	19700/-25°C
High Temperature High Shear at 150° C, cP	D4683	4.1
TBN	D2896	10

\*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.

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PRODUCT	6/1 QUART	3/1 GAL	2/2.5 GAL	5 GAL PAIL	6 GAL EPAK BOX	55 GAL DRUM	TOTE	BULK
Syn Blend 15W-40	PHD00469	PHD00369	PHD00461	PHD27164	PHD67164	PHD17164	PHD57164	17164