

# PURUS<sup>®</sup>

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

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



### DESCRIPTION

**PURUS SAE 10W-30 API CK-4 Synthetic Blend Heavy Duty Engine Oil** is formulated for use in high speed turbocharged and fully aspirated four-stroke diesel engines. Enhanced with synthetic base stock the oil meets Tier IV non-road emission standards and 2017 greenhouse compliance where a 10W-30 API CK-4 viscosity is recommended. The 10W-30 grade currently recommended and used as original fill in newer model engines to improve fleet fuel economy, cold starts and extend drain intervals in OTR fleets to lower maintenance and downtime costs.

**PURUS SAE 10W-30 API CK-4 Synthetic Blend Heavy Duty Engine Oil is purpose built to meet these industry drivers and challenges:**

- Achieve longer fleet engine durability in a range of operating conditions utilizing leading edge lubricant chemistry.
- Reliable exhaust aftertreatment protection for both engine warranty and DPF useful life, yielding reduced maintenance costs.
- Sustainable fuel efficiency and engine oil integrity when operating at longer oil change intervals.
- Meeting Phase II and preparing the fleet for Phase III (2027) Fuel Consumption and Green House Gas Emission compliance.

### PERFORMANCE BENEFITS

| INDUSTRY DRIVERS   | PURUS 10W-30 SYN BLEND<br>SUPPORTING TECHNOLOGY  | PURUS BENEFITS<br>PERFORMANCE ADVANTAGES   |
|--|--|--|
| <b>Engine Durability</b> is at the forefront of OTR and Vocational applications operating in a wide range of working conditions from light to severe duty service. Extended oil change intervals and higher efficiency demands require the engine oil to perform multiple operating responsibilities     | <b>PURUS Advanced Additive Technology</b> <ul style="list-style-type: none"><li>• Controls soot related viscosity increase that can cause premature oil filter plugging, soot related wear, decreased fuel efficiency</li><li>• TBN Retention over extended oil change intervals and higher operating temperatures that neutralizes corrosive combustion acids</li><li>• Clean engine deposits &amp; oil consumption control</li><li>• Maintains viscosity and shear stability under high loads and extended oil service intervals</li></ul> | <b>Field Tested and Proven Million Mile Engine and Running</b> <ul style="list-style-type: none"><li>• ODI extended to 50,000 mile</li><li>• Engine teardown revealed like new parts</li><li>• <a href="#">Scan QR Code for Million Mile Video</a></li></ul>   |
| <b>Longer Diesel Aftertreatment Warranty and Useful Life Periods</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>PURUS Balanced Additive Anti Clogging DPF Technology</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>PURUS Synthetic Blend 10W-30 provides the following benefits</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 lower maintenance &amp; less cleaning costs</li></ul> |
| <b>Sustainable Fuel Efficiency</b> <ul style="list-style-type: none"><li>• Critical to fleets operating with extended ODI and severe service.</li></ul>  | <b>PURUS Synthetic Blend 10W-30 Stable Viscosity Technology</b> <ul style="list-style-type: none"><li>• Balance additive oxidation protection and demonstrated by the Volvo T 13 test results</li><li>• Utilization of synergistic oxidation control and soot related viscosity increase additive technology</li></ul>   | <b>PURUS Synthetic Blend 10W-30</b> has field test proof that supports minimal viscosity increase at longer ODI with stable fuel consumption at the engine oil service interval.   |
| <b>Decreased Fuel Consumption and GHG Emissions</b> <ul style="list-style-type: none"><li>• Current Phase II and coming Phase III GHG fuel reduction regulations in 2027 continue to target five engine groups of on highway vehicles to improve fuel efficiency and reduce Green House Gases.</li></ul> | <b>PURUS Synthetic Blend 10W-30 Stable Viscosity</b> <ul style="list-style-type: none"><li>• Stays in grade even at longer oil change intervals to resist viscosity increase and maintain fuel efficiency</li></ul>  | <b>Fuel Savings Results</b> <ul style="list-style-type: none"><li>• Maintains from 1% to 3% fuel efficiency depending on application and operating conditions</li></ul>  |

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### APPLICATIONS

#### PURUS SAE 10W-30 API CK-4/SP 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
- API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4
- Caterpillar ECF-3, ECF-2
- Cummins CES 20081
- Daimler MB 228.31
- Detroit Diesel DFS 93K218
- Mack E0-0 Premium Plus, E0-N
- MAN M3775
- MTU Category 2.1
- 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  | 82.0        |
| Viscosity at 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 at 150° C, cP | D4683 | 3.5         |
| 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 10W-30 | PHD00467  | PHD00459 | PHD00393  | PHD27240   | PHD67240       | PHD17240    | PHD57240 | 17240 |