

IDO Premium Plus CK-4

Premium Heavy-Duty Diesel Engine Oil

Features & benefits

- Improved shear stability and viscosity retention
- Low ash formulation
- Quantifiable increased wear protection for Cams, Tappets, Rings, Cross Heads, Injector Screws and so much more
- Fully backwards compatible to CJ-4, CI-4 Plus, CI-4 and CH-4
- Compatible with low and ultra-low sulfur diesel
- Registered with major OEMs
- Meets and exceeds major OEM specifications

Specifications

✓ Meets requirements • Approved/Licensed * Backwards compatible

| Specification | 10W-30 | 15W-40 |
|----------------------------|--------|--------|
| ACEA E7, E9, E11 | ✓ | ✓ |
| API CK-4, CJ-4, CI-4 PLUS* | • | • |
| CAT ECF-3* | ✓ | ✓ |
| Cummins CES 20086* | • | • |
| Detroit Diesel DFS 93K222* | • | • |
| Deutz DQC III-10 LA | ✓ | ✓ |
| FORD WSS-M2C171-F1* | ✓ | ✓ |
| MACK EOS-4.5* | • | • |
| JASO DH-2 | ✓ | ✓ |
| MAN 3275, 3575 | ✓ | ✓ |
| MB 228.31 | ✓ | ✓ |
| MTU Category 2.1 | ✓ | ✓ |
| Renault VI RLD-3* | • | • |
| VOLVO VDS-4.5* | • | • |

Sizes & order codes

| Size | 10W-30 | 15W-40 |
|----------------------------------|----------|----------|
| 946 mL (1 US QT) | F0114215 | F0114115 |
| 5 L (1.32 US gal) | F0114230 | F0114130 |
| 18.9 L (5 US gal) | F0114240 | F0114140 |
| 60 L (15.85 US gal) | F0114245 | F0114145 |
| 205 L (54.2 US gal) | F0114250 | F0114150 |
| 1000 L (264 US gal) | F0114260 | F0114160 |
| 1000 L (264 US gal) Bulk Tote | F0114201 | F0114101 |
| Bulk | B0114201 | B0114101 |



IDO Premium Plus CK-4 next-generation oil was formulated to meet API CK-4 specifications and compliance levels set forth by the EPA for diesel engines manufactured in 2017 and onward.

IDO Premium Plus CK-4 is fully backward serviceable to API CJ-4, CI-4 Plus, and CH-4, making it ideal for large, small and mixed fleet operations requiring multiple service categories.

IDO Premium Plus CK-4 was formulated with high-quality base oils and superior CK-4 additive technology. This robust product protects your engine from the click of the ignition as it was designed to improve emissions control, fuel economy, wear protection, TBN retention, shear stability, and oxidation resistance. Drain intervals may be extended with regular used oil analysis.

IDO Premium Plus CK-4 oils are compatible with exhaust after-treatment devices, including Diesel Particulate Filters (DPF), Diesel Oxidation Catalysts (DOC), and Selective Catalytic Reduction (SCR) systems.

Continue to the next page for typical testing results.



Always consult your owner's manual for verification of fluid type and grade!

Supporting data available to demonstrate acceptable performance. Check with Sales Associate for the latest product approvals.

Please note these are typical performance indicators and can change without notice.

This data sheet replaces previous versions prior to Aug 19, 2024.

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Typical Results

| Test Method | 10W-30 | 15W-40 |
|---|----------------|----------------|
| VISCOSITY (D445) cSt @ 40°C cSt @ 100°C | 79.90 11.6 | 116.9 15.5 |
| VISCOSITY INDEX (D2270) | 138 | 139 |
| ASTM COLOUR (D1500) | 4.0 | 4.0 |
| POUR POINT (D97), °C | -36 | -32 |
| FLASH POINT (D93), °C | 208 | 211 |
| COLD CRANKING VISCOSITY (D5293), cP | 6384 @ -25°C | 5130 @ -20°C |
| TBN (D2896), mg KOH/g | 10 | 10 |
| MRV VISCOSITY (D4684), cP | 20,400 @ -30°C | 18,400 @ -25°C |
| HTHS VISCOSITY (D4683), cP @ 150°C | 3.5 | 4.3 |
| NOACK VOLATILITY (D5800) 1 hr @ 250°C, % | 10.0 | 8.0 |
| SULFATED ASH (D874), % | 1.0 max | 1.0 max |



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