



Firebird Heavy Duty EC Motor Oil

76® Firebird Heavy Duty EC (Emission Compatible) Motor Oil is an environmentally responsible universal fleet engine oil formulated with greater than 50% high-quality, re-refined base stocks. It has been specially developed to lessen the environmental impact of disposal of used oil. It is designed for use in on-highway diesel trucks, off-highway diesel equipment, farm equipment and light trucks with diesel engines. It is fully licensed by the API and meets the performance requirements of a wide variety of diesel and gasoline engine manufacturers.

Firebird Heavy Duty EC meets or exceeds the requirements of API Service Categories CJ-4, CI-4, CH-4, CG-4 and SM. It also meets the performance requirements of leading OEM specifications, including Caterpillar ECF-3, Cummins CES 20081, Mack EO-O Premium Plus and Volvo VDS-4. It will provide excellent protection in conventional and EGR-equipped diesel engines, and can be used in diesel engines equipped with diesel particulate filters (DPFs).

Applications

- On-highway diesel trucks equipped with exhaust aftertreatment devices such as diesel particulate filters and oxidation catalysts to meet 2007 exhaust emission standards
- Diesel engines equipped with EGR, ACERT or other emissions control technologies to meet 2004 and earlier exhaust emission standards
- Older diesel equipment with conventional, non-EGR engines
- Off-highway construction, earth moving and mining equipment
- Farm equipment with diesel or gasoline engines

Firebird Heavy Duty EC meets or exceeds the requirements of:

- API Service CJ-4, CI-4, CH-4, CG-4, SM
- API CI-4 PLUS
- Caterpillar ECF-3, ECF-2, ECF-1a
- Cummins CES 20081
- Detroit Diesel Power Guard 93K218
- Mack EO-O Premium Plus
- Mercedes-Benz Sheet 228.3
- MTU MTL 5044 Type 2
- Volvo VDS-4

**API CJ-4 Diesel
Engine Oil
Formulated With
Re-refined Base
Stocks**

**Customer Service
Number:
1-888-766-7676**

**Technical Hot Line:
1-800-435-7761**

**E-mail Address:
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- Diesel engines manufactured by OEMs not listed above, including International (Navistar), John Deere, Hino, Komatsu, Kubota and others

Features/Benefits

- Excellent protection for 2007 emissions-compliant engines and older diesel engines
- Specially formulated to protect exhaust aftertreatment devices
- Protects against particulate filter plugging
- Excellent soot control for protection against abrasive wear and soot-induced oil thickening
- Excellent resistance to viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Protects against wear
- Protects against rust and bearing corrosion
- Good resistance to foaming and aeration
- Lessens the environmental impact of used oil disposal

Due to continual product research and development, the information contained herein is subject to change without notification.

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Typical Properties

| SAE Grade | 15W-40 |
|--|-----------|
| Specific Gravity @ 60°F | 0.877 |
| Color, ASTM D1500 | L 4.0 |
| Flash Point (COC), °C (°F) | 238 (460) |
| Pour Point, °C (°F) | -31 (-24) |
| Viscosity, Kinematic | |
| cSt @ 40°C | 116 |
| cSt @ 100°C | 15.4 |
| Viscosity Index | 139 |
| Cold Cranking Viscosity, cP @ -20°C | 6,400 |
| High-Temp/High-Shear Viscosity, cP @ 150°C | 4.1 |
| Sulfated Ash, ASTM D874, wt % | 0.99 |
| Total Base Number (TBN), ASTM D2896 | 9 |
| Zinc, wt % | 0.134 |
| Base Oil, Re-refined Content, wt % | >50 |

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

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