



LUBRICANTS

## Power-D® Engine Oil 15W-50

Phillips 66® Power-D Engine Oil is a premium quality synthetic blend universal fleet engine oil designed for use in on-highway diesel trucks and off-highway diesel equipment, as well as in passenger cars and light trucks with either diesel or gasoline engines where the viscosity grade is appropriate. It is recommended for use both in EGR-equipped diesel engines and in older, non-EGR diesel engines. It also will provide excellent protection for gasoline engines in mixed commercial fleets.

Power-D Engine Oil is formulated with advanced additive technology to provide outstanding wear protection, soot control and bearing corrosion protection. Outstanding soot dispersancy protects against abrasive wear and soot-induced oil thickening, and ensures good low-temperature pumpability even with soot-laden oil. High dispersancy-detergency and a high alkaline reserve (TBN) provide extra protection in extended drain or severe service intervals, and in EGR-equipped engines.

Power-D Engine Oil meets or exceeds the performance requirements of API Service Categories CI-4 and SL, API CI-4 PLUS, and leading OEM specifications and worldwide standards for diesel engine oils. It is backward serviceable for use where API CH-4 or earlier "C" category engine oils, or the concurrent earlier OEM specifications, are specified.

### Applications

- On-highway diesel trucks equipped with cooled-EGR, ACERT or other technologies to meet 2004 and earlier exhaust emission standards
- Older diesel equipment with conventional, non-EGR engines
- Mixed fleets with both diesel and gasoline-fueled vehicles
- Off-highway construction, earth moving and mining equipment
- Farm equipment with diesel or gasoline engines

Power-D Engine Oil is licensed or OEM-certified for:

- API Service CI-4 with CI-4 PLUS, CI-4, CH-4, SL

## Premium Universal Fleet Engine Oil

KEEPING THE  
WORLD  
RUNNING  
SMOOTHLY. 



Power-D Engine Oil meets or exceeds the requirements of:

- ACEA E7-04, E5-02, E3-96
- Caterpillar ECF-2, ECF-1-a
- Cummins CES 20077
- Global DHD-1
- MAN 271, 3275
- MTU MTL 5044 Type 2
- Diesel engines manufactured by OEMs not listed above, including International (Navistar), John Deere, Hino, Komatsu, Kubota and others

## Features/Benefits

- Synthetic Blend
- Outstanding 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
- Excellent wear protection
- High shear stability
- Excellent rust and bearing corrosion protection
- Good low-temperature pumpability, even with soot-laden oil
- Good resistance to foaming and aeration

## Power-D® Engine Oil 15W-50

| Typical Properties                         |               |
|--|---------------|
| <b>SAE Grade</b>                           | <b>15W-50</b> |
| Specific Gravity @ 60°F                    | 0.870         |
| Density, lbs/gal @ 60°F                    | 7.27          |
| Color, ASTM D1500                          | L 4.0         |
| Flash Point (COC), °C (°F)                 | 240 (464)     |
| Pour Point, °C (°F)                        | -40 (-40)     |
| Viscosity, Kinematic                       |               |
| cSt @ 40°C                                 | 139           |
| cSt @ 100°C                                | 18.4          |
| Viscosity Index                            | 149           |
| Cold Cranking Viscosity, cP @ -20°C        | 6280          |
| High-Temp/High-Shear Viscosity, cP @ 150°C | 4.8           |
| Sulfated Ash, ASTM D874, wt %              | 1.50          |
| Total Base Number (TBN), ASTM D2896        | 11.8          |

## Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.