

Shell Rotella DD+ 40

Two-stroke heavy duty Diesel Engine Oil

Shell Rotella DD+ Oil 40 is a high performance, heavy duty engine oil designed specifically for all two-stroke diesel engines manufactured by Detroit Diesel Corporation.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

Low ash technology

Reduced risk of valve distress and build-up of combustion chamber deposits. Meets requirements of Detroit Diesel for valve seat deposit control.

High thermal and oxidative stability

Maintains excellent standard of engine cleanliness.

Excellent protection

Against corrosion. Less risk of scuffing and accelerated wear.

Advanced detergent technology

Long term deposit control and retention of TBN.

• Shear stable SAE 40 & 50 monograde

Complete lubrication in all critical areas.

Main Applications

· Detroit Diesel two-stroke engines

Suitable for all Detroit Diesel two-stroke engines, in all applications including '149' engines used in mine haul trucks.

Certain 4-cycle engines

Can be used in certain 4-cycle engines in off-highway applications.

Specifications, Approvals & Recommendations

- · API Service Classification: CF-II, CF
- Detroit Diesel Corporation: 7SE 270 8810 (Sulphated Ash less than 0.8%) - All equipment.

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Typical Physical Characteristics

| Properties | | | Method | Shell Rotella DD+ 40 |
|---------------------|--------|-------|------------|----------------------|
| SAE Viscosity Grade | | | | 40 |
| Kinematic Viscosity | @40°C | cSt | ASTM D445 | 138 |
| Kinematic Viscosity | @100°C | cSt | ASTM D445 | 14.4 |
| Viscosity Index | | | ASTM D2270 | 103 |
| Density | @15°C | kg/m3 | ASTM D4052 | 899 |
| Flash Point (COC) | | °C | ASTM D92 | 250 |
| Pour Point | | °C | ASTM D97 | -15 |

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

Health and Safety

Shell Rotella DD+ 40 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative.

• Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

Advice

Advice on applications not covered here may be obtained from your Shell representative.