



Shell Caprinus XS11 20W-40

Railroad Diesel Engine Oil

Shell Caprinus XS11 20W-40 is a 11 TBN high quality, zinc-free engine railroad engine oil. Recommended for use where low and ultra-low sulphur diesel is used.

Performance, Features & Benefits

- Formulated with a zinc-free additive system
- Provide excellent engine cleanliness and sludge control
- Improved TBN retention versus Gen. 6 railroad engine oil
- Compatible with EPA Tier 3 and Tier 4 engine

Main Applications



- Recommended for use where low and ultra-low sulphur diesel is used

- Recommended for medium speed two-cycle railroad diesel engines, including EMD and General Electric

Specifications, Approvals & Recommendations

- Electro-Motive Diesel, Inc. (EMD)
- General Electric
- Locomotive Maintenance Officers Association (LMOA) Generation 7

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

Typical Physical Characteristics

| Properties | Method | Shell Caprinus XS11 20W-40 |
|---|------------|----------------------------|
| SAE Viscosity Grade | | 20W-40 |
| Kinematic Viscosity @40°C mm ² /s | ASTM D445 | 129.3 |
| Kinematic Viscosity @100°C mm ² /s | ASTM D445 | 15.3 |
| Viscosity Index | ASTM D2270 | 123 |
| Density @15°C kg/l | ASTM D4052 | 0.868 |
| Sulfated Ash % | ASTM D874 | 1.1 |
| Total Base Number mg KOH/g | ASTM D2896 | 11 |
| Flash Point (COC) °C | ASTM D92 | 260 |
| Pour Point °C | ASTM D97 | -30 |

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 Caprinus XS11 20W-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 Safety Data Sheet, which can be obtained from <https://www.epc.shell.com>

- **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