



Shell Cyprina 963

Traction Motor Support Bearing Lubricant

Shell Cyprina Oil 963 is a premium product formulated for use in lubricating traction motor suspension bearings on locomotives and plain bearings in railcar journal boxes. It is a premium grade, high viscosity index, low pour point product containing a balanced heavy duty additive combination that will protect new journal bearings during the critical break-in period and minimize friction in heavily loaded bearings. The rust and corrosion protection afforded by the heavy duty additive combination is further enhanced by an additional rust inhibiting additive. This product is formulated for all-year use.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- High viscosity index
- Low pour point
- Excellent lubricity characteristics
- Good rust protection
- Water separability
- High resistance to foaming
- Good shear stability

Main Applications

- Traction motor suspension bearings
- Plain bearings in railcar journal boxes
- Locomotive truck center plates

Typical Physical Characteristics

| Properties | | | Method | Shell Cyprina 963 |
|-----------------|--------|-----|------------|-------------------|
| Product Code | | | | 65522 |
| Gravity, °API | | | ASTM D1298 | 29.6 |
| Viscosity | @40°C | cSt | ASTM D445 | 63.5 |
| Viscosity | @100°C | cSt | ASTM D445 | 9.27 |
| Viscosity | @100°F | SUS | (calc) | 326 |
| Viscosity | @210°F | SUS | (calc) | 57.5 |
| Viscosity Index | | | ASTM D2270 | 124 |
| Pour Point | °F | | ASTM D97 | -35 |
| Analine Point | °F | | ASTM D189 | 219 |

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 Cyprina Oil 963 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.