



Journal Oil

CUSTOMER BENEFITS

STARFIRE Journal Oil delivers value through:

- **Excellent lubricity characteristics** imparted by the additive package minimizes friction to help prevent premature bearing failure.
- **Good rust protection** — Effective inhibitor package prevents rusting of surfaces exposed to water.
- **Water separability** — Starfire Journal Oil separates easily from water.
- **Good shear stability**
- **Excellent air release** by foam inhibitor hastens the release of foam and entrained air.

FEATURES

STARFIRE Journal Oil is manufactured from high viscosity index, low pour point base oils for use on suspension bearings. It contains an additive package that resists rust and corrosion and protects journal bearings during the critical break-in period by minimizing friction in heaving loaded bearings.

APPLICATIONS

STARFIRE Journal Oil is designed to lubricate locomotive traction motor suspension bearings and plain railcar journal bearings. It is also recommended for lubricating tractor motor suspension bearings, truck center plates, plain journal bearing waste saturation and pad lubrication or free oiling.

It meets the requirements of:

- AAR M-963-84 Specification for Journal Box Lubricating Oils
- GE D50E14 and EMD 1002 specifications covering suspension bearings.

TYPICAL TEST DATA

API Gravity	31.0
Viscosity, Kinematic cSt at 40°C cSt at 100°C	60.9 8.7
Viscosity, Saybolt SUS at 100°F SUS at 210°F	320 56
Viscosity Index	117
Flash Point, °C(°F)	237(459)
Pour Point, °C(°F)	-39(-38)

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.