

Traveller Extreme Duty

Traveller Extreme Duty Grease is a premium, lithium complex multi purpose grease with outstanding high temperature performance. It contains an extreme-pressure (EP) additive for increased load-carrying ability. Additionally, it contains molybdenum disulfide which effectively reduces friction under boundary lubrication conditions providing unmatched protection against vibration and shock loading. Traveller Extreme Duty is dark gray and has a smooth, buttery texture that is water resistant and provides excellent lubrication over a wide temperature range and for a variety of services. Enhanced with excellent oxidation and corrosion inhibitors that act synergistically to provide extended service protection.

Traveller Extreme Duty is recommended for use in equipment operating in rough, severe conditions such as shock loaded mobile equipment used in the mining, forestry, or construction industries, as well as heavy mining equipment.

APPLICATIONS

Traveller Extreme Duty Grease is recommended for:

- Slow speed bearings in mining and heavy manufacturing
- Heavy duty chassis lubrication; ball and universal joints
- Ball and roller bearings
- Heavy duty industrial lubrication such as Ball Mill conveyors
- Wheel bearings both disc and drum
- Fifth wheel applications
- Pulp & Paper Mills
- Heavy duty off-road equipment
- Rail cars and tracks
- Marine
- Steel mills/metalworking

RECOMMENDATIONS/SPECIFICATIONS

Meets requirements of NLGI GC-LB

Meets the Bucyrus International MPG Multi Purpose Grease (SD 4711) specification

SPECIAL HANDLING, NOTICES OR WARNINGS

Use the same care and handling as for any petroleum product.

FEATURES/ BENEFITS

Traveller Extreme Duty Grease provides

- **Long life under high temperature provides long-lasting equipment protection-** performs better than many of the leading competitive premium multi-application products by lasting 2-3 times longer in the ASTM
- **Low water washout requiring less re-greasing and maintenance** - effective water washout resistance can reduce maintenance costs in wet environments.
- **High mechanical stability in severe operating conditions** - can also lower maintenance costs as a result of reduced product breakdowns under low to moderately high shear conditions
- **Synergistic oxidation inhibitors allow for extended service operation over a wide range of temperatures** - completed over 90 hours at 160C in the ASTM D3527 Bearing Life Performance Test. Operating range of -20C to 160C
- **Outstanding rust and corrosion protection-** only a 2% psi loss after 100 hrs in the D942 Oxygen Pressure Vessel
- **Wear protection under extreme loads-** outperforms other leading brands in both the Four Ball Wear and Weld Point tests

TYPICAL CHARACTERISTICS

| Traveller Extreme Duty Grease | | |
|---|--------------------------------|-------------------------------|
| <i>Properties</i> | <i>Test Method ASTM D-</i> | <i>Data</i> |
| All Applications | | |
| Appearance | Visual | Grey/black |
| Consistency | Visual | Smooth, Tacky |
| Soap Type | | Lithium complex |
| NLGI Grade | | 2 |
| NLGI Classification | | GC-LB |
| Worked Penetration | 217 | 265-295 |
| Drop Point (°C/°F) | 2265 | >260(500) |
| Filler | | Molybdenum disulfide/graphite |
| Moly Content % | | 3 |
| Oil Separation | 1742 | <1 |
| Base Oil Viscosity | 445 | |
| cSt @ 40 °C | | 400 |
| cSt @ 100 °C | | 27 |
| Viscosity Index | 2270 | 90 |
| Automotive Applications | | |
| Water Washout @ 175 °F | 1264 | 2.5 |
| Leakage Tendencies, g loss | 4290 | 2.0 |
| High Temp Life hours | 3527 | 100 |
| Fretting Protection mg | 4170 | 7.8 |
| Elastomer Change @ 100 °C Volume Change % Hardness Change % | 4289 | 24 -9 |
| 4 Ball Wear Scar Diam., mm | 2266 | 0.4 |
| 4 Ball Load Wear Index kg | 2596 | 45 |
| 4 Ball EP Weld kg | 2596 | 620 |
| Rust Test | 1743 | Pass |
| Low Temperature Torque N-m | 4693 | 15.5 |
| Industrial Applications | | |
| Timken OK Load lbs | 2509 | 45 |
| Cu Corrosion | 4048 | Pass |
| Oxidation, psi drop @ 100 hrs | 942 | 2 |

Typical test data are average values only.

Minor variations which do not affect product performance are to be expected during normal manufacturing