



ULTRA-DUTY HD

0, 1, 2

(formerly Chevron Ultra-Duty Grease EP NLGI 0, 1, 2)

PRODUCT DESCRIPTION

Ultra-Duty HD greases are versatile, high pressure greases with good adhesive properties designed for a wide variety of automotive and industrial applications.

CUSTOMER BENEFITS

Ultra-Duty HD greases deliver value through:

- **Shock load protection**
- **Load-carrying protection**
- **Corrosion and rust protection**
- **Water resistant**
- **Maximum service lubrication**

FEATURES

Ultra-Duty HD greases are versatile, high pressure greases with good adhesive properties designed for a wide variety of automotive and industrial applications.

They are manufactured using selected highly refined, high viscosity base oils, a lithium-12 hydroxystearate thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. They are red in color and stringy in texture.

Ultra-Duty HD greases provide thicker shock-absorbing oil film protection and greater water resistance than conventional multipurpose greases due to their high viscosity components.

The high viscosity components and tackiness additive give Ultra-Duty HD greases an excellent adhesive quality which provides a tenacious lubricating film in working parts. The lubricants stay in place under abrasive operating conditions to resist water washout and shock load wear.

The tackiness characteristics of Ultra-Duty HD greases make these products somewhat harder to pump than the historical soft, buttery greases. For this reason, we recommend the use of a heavy follower plate with air-driven grease pumps.

Ultra-Duty HD greases lubricate well at low temperatures. The ASTM D1478 low temperature torque test shows that they retain their lubricating capacity, as defined by military specification MIL-G-81322, down to about -26°C (-15°F).

APPLICATIONS

Ultra-Duty HD greases are recommended for use in automotive and industrial equipment operating under most conditions except where very high operating temperatures are encountered. Typical applications are: mining equipment, construction equipment, material handling equipment, marine deck equipment, marine deck cranes, oil field equipment, offshore drilling equipment, paper machines, dredging equipment, logging equipment, rock quarry equipment, etc., operating in water, mud, or dusty conditions.

Ultra-Duty HD greases will help provide the needed shock load and rust protection and, best of all, they stay put which means less frequent regreasing. They are not Chevron's primary recommendation for high temperature wheel bearings. Starplex® Greases EP or Black Pearl® Greases EP are preferred for wheel bearing applications.

In industrial service, Ultra-Duty HD greases are recommended for use in most types of plain and antifriction bearings from 1-1/2 inch OD to over 16 inch OD, operating at speeds from 50 to 3000 rpm, as well as slides, gears, ways, etc.

Product(s) manufactured in the USA.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

10 March 2023

GR-150

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TYPICAL TEST DATA

| NLGI Grade | Test Method | 0 | 1 | 2 |
|--|--------------------|----------------------|----------------------|----------------------|
| <i>Product Number</i> | | 238013 | 238012 | 238011 |
| <i>SDS Number</i> | | 6790 | 6790 | 6790 |
| Operating Temperature, °C(°F) Minimum ^a Maximum ^b | | -26(-15) 132(270) | -26(-15) 138(280) | -26(-15) 143(290) |
| Penetration, at 25°C (77°F) Worked (60 Strokes) | ASTM D217 | 360 | 325 | 280 |
| Dropping Point, °C(°F) | ASTM D2265 | 171(342) | 171(342) | 190(374) |
| Four Ball Weld Point, kg | ASTM D2596 | 315 | 315 | 315 |
| Four Ball Wear Scar, mm | ASTM D2266 | 0.45 | 0.45 | 0.45 |
| Timken OK Load, lb | ASTM D2509 | 55 | 70 | 70 |
| Water Washout, wt % | ASTM D1264 | 15 | 10 | 7 |
| Water Spray-off, wt % | ASTM D4049 | n/a | 40 | 25 |
| Lincoln Ventmeter, psig at 30 s, at 24°C (75°F) -1°C (30°F) -18°C (0°F) | K95400 | 100 200 1700 | 100 400 1750 | 280 600 2500 |
| Thickener, % Type | | 5.6 Lithium | 7.2 Lithium | 8.6 Lithium |
| ISO Viscosity Grade, Base Oil Equivalent | | 460 | 460 | 460 |
| Viscosity, Kinematic cSt at 40°C cSt at 100°C | ASTM D445 | 460 31.0 | 460 31.0 | 460 31.0 |
| Viscosity Index | ASTM D2770 | 97 | 97 | 97 |
| Flash Point, °C(°F) | ASTM D92 | 274(525) | 274(525) | 274(525) |
| Oil Separation, mass % | ASTM D1742 | 5 | 4 | 2 |
| Texture | | Stringy | Stringy | Stringy |
| Color | | Red | Red | Red |

- a Minimum operating temperature is the lowest temperature at which a grease, already in place, could be expected to provide lubrication. Most greases cannot be pumped at these minimum temperatures.
- b Maximum operating temperature is the highest temperature at which the grease could be used with frequent (daily) relubrication.

Minor variations in product typical test data are to be expected in normal manufacturing.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.