



Tribol™ CT 1740 Range

Paper Machine Circulating Fluids

Description

Castrol Tribol™ CT 1740 (previously called Tribol™ 1740) Paper Machine Circulating Fluids are synthetic blend, high performance circulating fluids. They were designed specifically for the elevated temperatures and wet, steamy environment at the dryer end of high speed paper machines. These lubricants provide a free flowing oil for effective cooling and ease of settling and filtering out contaminants yet maintain a viscous lubricating oil film at the highest bearing temperatures. Tribol CT 1740 lubricants are manufactured from a blend of premium synthetic and highly refined petroleum base oils coupled with additives, including dispersants and antiwear additives, which give the product exceptional performance - even in the presence of high temperatures, paper dust and other particulate, steam, and condensate. Tribol CT 1740 has excellent resistance to oil oxidation and suspends particulates and contaminants for removal by filtration, settling, or centrifuge.

Application

Primary applications for Tribol CT 1740 are in the circulation systems of paper machines serving dryer rolls and the rolls of corrugators. These high performance circulating oils may be used in any system serving journal and antifriction bearings and gears. Tribol CT 1740 Fluids SHOULD NOT BE USED in gearsets where AGMA EP (Extreme Pressure) Gear Oils are specified. In selecting the proper viscosity fluid, it is important to consider the bearing manufacturer's recommended minimum viscosity at the operating temperature along with the nature of the pump or existing piping in the delivery and return systems.

Advantages

- Excellent antiwear and antioxidation characteristics.
- Maximum resistance to varnish and deposit formation - exceptional cleanliness.
- Excellent demulsibility for effective water separability and filterability, with extra protection against corrosion.
- High VI - resistance to high temperature thinning.

Typical Characteristics

| Name | Method | Units | CT 1740/ 220 | CT 1740/ 320 |
|--|-----------------------|------------------------|-----------------|-----------------|
| ISO Viscosity Grade | - | - | 220 | 320 |
| Specific Gravity @ 15.6°C | ASTM D1298 / ISO 3675 | - | 0.89 | 0.89 |
| API Gravity @ 15.6°C | ASTM D1298 | ° | 27.6 | 28.0 |
| Kinematic Viscosity @ 40°C / 104°F | ASTM D 445 / ISO 3104 | cSt | 214 | 310 |
| Kinematic Viscosity @ 100°C / 212°F | ASTM D 445 / ISO 3104 | cSt | 24.6 | 32.3 |
| Viscosity Index | ASTM D2270 / ISO 2909 | - | 144 | 145 |
| Pour Point | ASTM D97 / ISO 3016 | °C/°F | -25 / -13 | -19 / -3 |
| Flash Point - open cup method | ASTM D92 / ISO 2719 | °C/°F | 266 / 510 | 266 / 510 |
| Demulsibility | ASTM D 1401 | - | 42-38-0 | 42-38-0 |
| Foam Sequence I - tendency / stability | ASTM D892 / ISO 6247 | ml / ml | 50/0 | 50/0 |
| Rust Protection | ASTM D665A / ISO 7120 | Rating | Pass 14 days | Pass 14 days |
| Conradson Carbon Residue | ASTM D189 | % | 0.03 | 0.04 |
| Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr) | ASTM D2266 | mm | 0.42 | 0.34 |
| Falex Pin & Vee Block test - Antiwear properties | ASTM D 2670-10 | Teeth Wear (number) | +9 | +6 |

Subject to usual manufacturing tolerances.

Additional Information

When changing over from previous lubricants to Tribol CT 1740, the high degree of dispersancy of Tribol CT 1740 may dissolve varnish and loosen deposits which may have built up over a period of time. It is strongly suggested, especially with older machines, that systems be cleaned with a suitable flushing agent in preparation for a changeover to Tribol CT 1740. Even

following such a treatment the system should be monitored for a period after the initial fill of Tribol CT 1740; and care must be taken that small orifices, lines, and filters are not restricting the flow of lubricant. Following the conversion of older machines to higher speeds with resulting higher temperatures, higher oil flow rates are usually attempted to facilitate cooling and the carrying off of greater amounts of contaminants. It usually becomes necessary to enlarge, often double, the retention tanks in the circulation system to allow for a more complete separation of water and particulate contaminants. Selection of the higher viscosity fluid could also necessitate additional settling-out time for contaminants.

This product was previously called Tribol 1740. The name was changed in 2015.

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