



TO-4 Extreme Transmission Oil

Dyna-Plex 21C® TO-4 Extreme Transmission Oil was designed to perform in both very cold and hot environments, eliminating the need for seasonal product changes for Caterpillar transmission and final drives. This product is designed with the latest additive technology for new Caterpillar machines and has been field tested to show an increase in transmission disc life up to 45%.

Dyna-Plex 21C TO-4 Extreme Transmission Oil is primarily intended for power shift transmissions, clutches and brakes, final drives, bevel gears and differentials, and other such drive train components. It is formulated with a thermally stable chemical package, which provides oxidation and anti-wear properties that increase the life of the bronze friction discs by demonstrating less slip. This increases the load carrying capacity of the clutches above that of a typical qualified engine oil.

| <u>PROPERTY</u> | <u>ASTM TEST METHOD</u> | <u>EXTREME 10W-30</u> | <u>ARCTIC 0W-20</u> |
|------------------------------------|-------------------------|-----------------------|---------------------|
| Viscosity @ -30°C, cP | D-2602 | 5000 | 3000 |
| Viscosity @ 40°C, cSt | D-445 | 58.00 | 32.00 |
| Viscosity @ 100°C, cSt | D-445 | 10.50 | 8.00 |
| Viscosity Index | D-2270 | 175 | 170 |
| Flash Point, COC, °C (°F) | D-92 | 220 (428) | 220 (428) |
| Pour Point, °C (°F) | D-97 | -45 (-49) | -45 (-49) |
| Color | D-1500 | 2.0 | 2.0 |
| Gravity, °API | D-287 | 31.5 | 36.0 |
| Sulfated Ash, % wt. | D-874 | 1.6 | 1.6 |
| Zinc, min. | D-1549 | .090 | .090 |
| Foaming: with 0.1% / without water | D-892 | | |
| Sequence I | | 20/0 | 20/0 |
| Sequence II | | 50/0 | 50/0 |
| Sequence III | | 20/0 | 20/0 |

Meets or exceeds the following tests and requirements:
 Caterpillar TO-2, TO-4, TO-4M, TDTO, TMS
 Allison C3, C4
 Komatsu Micro-Clutch