



## 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