



Gulf HT Fluid C TO-4

Heavy-duty Powershift Transmission Fluid

Product Description

Gulf HT Fluid C TO-4 series is specifically designed for powershift transmissions, final drives and wet brakes on heavy-duty off-highway equipment used in earthmoving, mining, logging, road transport and agricultural applications. These oils are blended from premium-quality base oils and proven performance additives to provide enhanced wear protection, thermo-oxidative stability, frictional characteristics and rust & corrosion protection. These oils are specifically designed to meet the performance requirements of Caterpillar TO-4, Komatsu powershift transmissions, ZF torque converter transmissions and Allison C-4 Automatic Transmissions.

Features & Benefits

- Excellent control of frictional properties prevents clutch slippage and ensures smoother operation of transmissions and brakes
- Provides good protection against rust and corrosion to precision equipment components when operating in humid conditions
- Keeps metal parts free of sludge and varnish, leading to reliable operation
- Excellent foam control ensures effective wet brake and transmission performance and controls brake chatter
- Good compatibility with all common seals, O-rings, packing materials and clutch materials leads to reduced downtime
- Very good low temperature fluidity (SAE 10W grade) ensures quick startup of equipment

Application

- Powershift and automatic transmissions, wet brakes, torque converters and hydrostatic systems requiring these quality fluids
- Heavy-duty manual transmissions, gearboxes, final drives and hydraulic systems used in off-highway equipment for earthmoving, agricultural, logging, construction and mining applications; industrial torque converters and hydraulic systems requiring fluids meeting the specifications below.
- Can be used where ZF TE-ML03, ZF TE-ML07F type of fluids are recommended

Specifications, Approvals & Typical Properties

Meets the following Specifications		10W	30	50
Caterpillar TO-4, TO-2, API CF		X	X	X
Allison C4		X	X	X
Komatsu KES 07.868.1 Powershift Transmissions, Komatsu Micro-Clutch		X	X	X
Typical Properties				
Test Parameters	ASTM Method	Typical Values		
Viscosity @ 100 °C, cSt	D 445	6.8	11.4	18.5
Viscosity Index	D 2270	121	105	100
Flash Point, °C	D 92	222	232	241
Pour Point, °C	D 97	-36	-30	-18
Brookfield Viscosity	D	15,000 @-35	22,000 @-25	50,000 @-15
Density @ 15°C, Kg/l	D 1298	0.8644	0.8805	0.8957

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Properties mentioned are typical only and minor variations, which do not affect product performance, are expected to arise in normal manufacturing processes. Please follow equipment manufacturer's recommendations for performance level and viscosity grade. The Safety Data Sheet for this product is available from your nearest Gulf Distributor. Please consult our local representative if any further information is required.

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