



Gulf HT Fluid TO-4 Fluids

Heavy Duty Powershift Transmission Fluids

Product Description:

Gulf HT Fluid TO-4 fluids are 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. Gulf HT Fluid TO-4 series 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. Gulf HT Fluid TO-4 series 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.

Gulf HT Fluid TO-4 series has improved thermo-oxidative stability that gives protection of metal surfaces against scuffing and wear thus giving longer oil and equipment life. Excellent control of frictional properties prevents clutch slippage and ensures smoother operation of transmissions and brakes. Gulf HT Fluid TO-4 series 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 and excellent foam control ensures effective wet brake and transmission performance and controls brake chatter. Gulf HT Fluid TO-4 series shows good compatibility with all common seals, O rings, packing materials and clutch materials that leads to reduced downtime. Very good low temperature fluidity (SAE 10W grade) ensures quick start up of equipment

Gulf HT Fluid TO-4 series are suited for powershift and automatic transmissions, wet brake, torque converters and hydrostatic systems requiring these quality fluids. Also for heavy duty manual transmissions, gear boxes, final drives and hydraulic systems used in off highway equipments for earthmoving, agricultural, logging, construction and mining applications requiring fluids meeting the below mentioned specifications. Also for industrial torque converters and hydraulic systems where such type of fluids are specified.

<u>Property:</u>	<u>Typical Values:</u>			<u>Specifications:</u>
Product Code	2510	2530	2550	SAE 10W & SAE 30 meets: Caterpillar TO-4 Komatsu KES 07.868.1 Allison C-4 ZF TE-ML- 03C SAE 50 meets: Caterpillar TO-4 Komatsu KES 07.868.1
SAE Viscosity Grade (SAE J300)	10W	30	50	
Density @ 15°C (ASTM D4052)	878 kg/m ³	898 kg/m ³	908 kg/m ³	
Viscosity @ 40°C (ASTM D7042)	30.5 mm ² /s	88.1 mm ² /s	208 mm ² /s	
Viscosity @ 100°C (ASTM D7042)	5.5 mm ² /s	10.5 mm ² /s	18.1 mm ² /s	
Viscosity Index (ASTM D2270)	117	95	95	
Flash Point (COC) (ASTM D92)	160°C	180°C	220°C	
Pour Point (ASTM D97)	-36°C	-27°C	-30°C	

Product Code: see table	Date Issued: 26/06/2010	Supersedes: --/--/--	Revision nr: --
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