



DURALIFE® FULL SYNTHETIC HEAVY DUTY HYDRAULIC & POWERSHIFT TRANSMISSION / DRIVE TRAIN FLUIDS

Duralife® Full Synthetic Heavy Duty Hydraulic & Powershift Transmission /Drive Train Fluids are formulated with high quality synthetic base stocks and a premium quality additive package to meet the latest requirements of modern powershift transmissions, final drives, oil immersed brake and hydraulic systems of heavy duty on and off-highway equipment requiring Caterpillar TO-4/TO-4M, Allison C-4 specifications. They maintain a full film of protective lubricant under a wide range of temperature, from very low temperatures to high temperatures. Optimum clutch-friction retention, eliminate clutch slippage.

APPLICATIONS:

Duralife® Full Synthetic Heavy Duty Hydraulic & Powershift Transmission /Drive Train Fluids are recommended for use in heavy duty manual, powershift and automatic transmissions, hydrostatic transmissions, torque converters, winches, final drives, oil immersed brake, and hydraulic systems of off-highway industries including: construction, mining, ... They are also recommended for use in certain heavy duty automotive type manual transmissions, powershifts and gear cases of on-highway commercial trucks, buses, commercial boats where a Caterpillar TO-4/TO-4M or Allison C-4 quality fluid is specified. They meet the following performance requirements:

**API SERVICE MT-1, MIL- L-2104, Caterpillar TO-4M/TO-4, Allison C-4, Allison TES-439
Eaton Transmission PS-081& PS-164 Rev 7
Rockwell/Fuller CD50 (PS-081), International TMS-6816
Mack TO-A Plus, ZF FreedomLine, ZF TE-ML 03C
Komatsu KES 07.868.1 , Powershift Transmissions, Komatsu Micro-Clutch (all grades), Komatsu Dresser Equipment, Volvo 97305 Vickers M-2950-S, Ford Type F Transmission Fluid (SAE 10W)**

BENEFITS:

- Provide outstanding oxidation, thermal stability. Improved friction reduction properties
- Protect gear teeth against pitting, spalling and scouring
- Improved cold weather flow ability lubricates components faster and provide better cold weather shift- ability in manual transmissions
- Non-corrosive to steel and other metals. Protect and extend the life of synchronizers
- Excellent load carrying, anti-wear, antirust, anticorrosion, antifoam properties, and EP performance
- Long service life

TYPICAL CHARACTERISTICS

Test	Method	Typical Results					
		10W	5W-20	5W-30	10W-30	30	50
SAE Grade							
API Gravity	ASTM D287	34.38	35.17	34.97	33.61	33.03	31.7
Specific Gravity @ 15.6°C (60°F)	ASTM D1298	0.853	0.849	0.85	0.857	0.86	0.867
Viscosity @ 40°C, cSt	ASTM D445	30.5	39.6	49.6	80	79.5	163.04
@ 100°C, cSt		6.2	7.5	9.8	11.8	11.2	18.80
Viscosity Index	ASTM D2270	158	160	188	141	130	130

Flash Point, °C (°F)	ASTM D92	215(419)	215(419)	215(419)	230(446)	230(446)	235(455)
Pour Point , °C (°F)	ASTM D97	-50(-58)	-50(-58)	-50(-58)	-50(-58)	-45(-49)	-38(-36.4)
FZG Gear Test, Fail stage	ISO 14635-1 / DIN 51354	>10	>10	>10	>10	>10	>10
Noack, %wt	ASTM D5800	13.5	9.0	9.0	6.8	5.3	3.6

The above characteristics are average values based on recent production. Minor variations which do not affect product performance are to be expected in normal manufacture.

WARNING:

Continuous contact with used oil has caused skin cancer in animal tests. Avoid prolonged contact. Thoroughly wash exposed areas with soap and water. Keep out of reach of children.

Don't pollute. Conserve resources. Return used oil and container to collection centers

Reference SDS Number 12099 database on our website at www.amtecol.com
OR scan the code for a direct link

