



Forklift HTF

Full Synthetic Hydraulic & Transmission Fluid

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DESCRIPTION

TRIAX Forklift HTF (Hydraulic & Transmission Fluid) is a premium-grade, full-synthetic, high-viscosity-index fluid engineered to lubricate the hydraulic and power-lift systems and automatic transmissions of forklifts and other material-handling equipment. Built on state-of-the-art viscosity improvers and thermal stabilizers, it holds optimal viscosity across a very wide temperature range and under continuous load — lowering operating temperatures, protecting seals, gears, and synchronizers, and ensuring flawless shifting and long component life in equipment that runs 24/7 in severe-service environments such as distribution centers and logistics warehouses.

UP TO 6,000 HOURS

Hydraulic Service Life

UP TO 1,000 HOURS

Transmission Service Life

PERFORMANCE HIGHLIGHTS

- Excellent viscosity stability across a very wide temperature range
- Lowers transmission and hydraulic system operating temperatures
- Compatible with a very wide range of forklifts and lifting equipment
- Complete protection for seals, gaskets, and hoses of hydraulic equipment
- Protects gears and synchronizers against corrosion and wear, preventing premature transmission failure
- Engineered for equipment used 24/7 in severe-service conditions such as distribution centers and warehouses
- Superior viscosity stability prevents overheating and hydraulic pump / hose failure
- Pumps freely in very cold temperatures without thickening or clogging hydraulic lines
- Ensures flawless shifting and long component life

SPECIFICATIONS & APPLICATIONS

TRIAX Forklift HTF is designed for the high-performance hydraulic systems and automatic transmissions of forklifts and other lifting equipment, and is also recommended for differentials and gearboxes that call for a GL-4 ATF or Dexron III / Mercon V, Allison C-4, or CAT TO-2 fluid. It suits a wide range of forklift makes from the United States, Europe, China, and Japan, in 24/7 distribution-center and logistics-warehouse service where downtime is not acceptable.

For use in applications requiring the following specifications:

- Denison Hydraulics HF-0, HF-1 & HF-2
- John Deere JDM J20C, J20D, J14B, J14C, J21A & 303
- ZF TE-ML 03E, 03F, 05F, 06E, 06F, 06K, 17E & 21F
- Power Fluid PF-821 XL & 821 (272843)
- Hydraulic / Transmission Fluid 257541 & 2466234
- Hydraulic / Transmission Fluid M-1135, M-1138, M-1143, M-1110, M-1127A & M-1192A
- Permatran & Permatran III
- API GL-4 · Dexron III · Mercon V · Allison C-4 · CAT TO-2

Recommended for forklifts from the following manufacturers:

- Manitou
- Komatsu
- Hyster-Yale
- Crown Equipment
- Mitsubishi
- Toyota
- KION
- UniCarriers
- Anhui Heli
- Nissan
- Hangcha
- Hitachi, and many others

If a specification is listed above, the product meets or exceeds that specification, or is suitable for use in equipment requiring that specification.

TYPICAL PROPERTIES

Parameter (Test Method)	Typical Value
Specific Gravity @ 60 °F (ASTM D1298)	0.839
Viscosity, Kinematic @ 40 °C, cSt (ASTM D445)	34
Viscosity, Kinematic @ 100 °C, cSt (ASTM D445)	7.3
Viscosity Index (ASTM D2270)	192
CCS Viscosity @ -25 °C, mPa·s (ASTM D5293)	5920
Flash Point, °C (°F) (ASTM D92)	221 (430)
Pour Point, °C (°F) (ASTM D97)	-50 (-58)

These are typical values. There may be small differences in actual values which are a normal part of production and do not affect product performance or specification compliance.