

1000 THF

Multifunctional Tractor Hydraulic Fluid



Product description

1000 THF is a high quality, multifunctional tractor hydraulic fluid, specially formulated for use in transmissions, final drives, wet brakes, and hydraulic systems of tractors and other equipment employing a common fluid reservoir.

Customer benefits & product features

Customer benefits

- **Reduced operating costs**
1000 THF has been designed to comply with the fluid performance requirements of most OEMs, helping maintain efficiency and reliability while helping minimize overall operating costs.
- **Contributes to longer equipment life**
Special additives help protect metal surfaces against scuffing and wear, even under severe operating conditions, contributing to longer equipment life.
- **Lower inventory cost**
One fluid is suitable for a wide range of tractor hydraulic systems, helping reduce the need for multiple products and free up shelf space.
- **Helps minimize weather and storage concerns**
Helps protect highly finished precision parts against rust and corrosion when operating in humid conditions and during seasonal shutdown periods.
- **Helps minimize downtime**
Good compatibility with seals, O-rings, and packing materials helps maintain their condition and helps keep leakage to a minimum.
- **Smooth operation**
Formulated to help suppress brake "chatter" and transmission "slip" for smooth and efficient operation of brakes and transmissions.
- **Reliable operation**
The formulation helps keep metal parts clean and free of varnish and sludge deposits that could otherwise contribute to premature breakdown.

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Product features

- 1000 THF is formulated with highly refined base stocks, a viscosity index improver, oxidation and corrosion inhibitors, antiwear and film strength additives, an antifoaming agent, and a pour point depressant.
- 1000 THF is formulated to help suppress brake "chatter" and excessive brake facing wear. It helps provide smooth operation of clutch packs and wet brakes, promotes smooth shifting, helps protect vital parts against rust and corrosion, and helps minimize leakage through good compatibility with seals, O-rings, and packing materials.
- 1000 THF helps prevent sludge and varnish formation, helps protect metal surfaces against scuffing and wear, and helps provide effective lubrication for spur, helical, and spiral bevel final drive gears.

Applications

1000 THF is recommended by Chevron for use in:

- ABB Dodge – Recommended for use in ABB Dodge controlled start-up transmissions.
- General tractor / farm equipment – Recommended for use as a multifunctional fluid in many types of farm tractors and equipment.
- Hitachi mid-sized wheel loader – Recommended for use in Hitachi mid-sized wheel loader axles, transfer cases, and hydraulic systems.
- Hitachi Rigid Dump Trucks – Meets Hitachi requirements for aftermarket use in Rigid Dump Trucks.
- Hydraulic pump performance – Passes the High Pressure Vane Pump Test, ASTM D2882, with less than 15 mg steel weight loss.

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Approvals, performance and recommendations

1000 THF		
OEM / Maker / Standard	Specification	Claim
Volvo	Volvo 97303 (WB 101, approval number 97303:004)	Approved
ZF	TE-ML 03E, 05F, 17E, 21F	Approved
AGCO	Power Fluid 821XL	Suitable for Use
API GL-4	Recommended in non-hypoid API GL-4 applications	Suitable for Use
Case Corporation	JIC-143, JIC-145, MS 1206, MS 1207, MS 1209, MS 1210 (TCH)	Suitable for Use
Case New Holland / CNH	MAT 3505, MAT 3525, MAT 3540 ¹	Suitable for Use
Caterpillar	TO-2	Suitable for Use
Ford New Holland	ESN-M2C134-D, FNHA 2 C 201.00	Suitable for Use
International Harvester	B6	Suitable for Use
John Deere	JDM J20C	Suitable for Use
Kubota	UDT	Suitable for Use
Massey Ferguson	M1135, M1141, M1143, M1145	Suitable for Use
Minneapolis-Moline	Q-1722, Q-1766, Q-1766B	Suitable for Use
Oliver	Q-1705	Suitable for Use
Renk Doromat	874A and 874B	Suitable for Use
Valtra	G2-08 (XT-60)	Suitable for Use
White Farm Equipment	Q-1826	Suitable for Use

¹ Case New Holland MAT 3540 except for tractors built after 2012: Case IH Steiger, Quadtrac, Magnum, and New Holland T8 and T9 series

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Typical test data

1000 THF	TEST METHOD	RESULTS
Product Code		510082
Pour Point, °C	ASTM D97	-42
Brookfield Viscosity at -35 °C, mPa.s	ASTM D2983	40,000
Kinematic Viscosity, mm ² /s at 40 °C	ASTM D445	58.4
mm ² /s at 100 °C	ASTM D445	9.5
Viscosity Index	ASTM D2270	145
Flash Point, COC, °C	ASTM D92	235
Color	Visual	Orange
Density, 15 kg/L	ASTM D4052	0.874

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ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Safety Data Sheet (SDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain an SDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Asia-Pacific region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

Customers should always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

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