



1000 THF

Multifunctional Tractor Hydraulic Fluid

Product Data Sheet

Customer benefits

Low operating costs

1000 THF meets or exceeds fluid performance requirements of most OEM's, maintaining efficiency and reliability while helping to minimize overall operating costs.

Long equipment life

Special additives help protect metal surfaces against scuffing and wear even under severe operating conditions contributing to long equipment life.

Low inventory cost

One fluid does the job of a full range of tractor hydraulic systems. It can replace multiple products (within the required viscosity range) and free up inventory capital cost.

Minimizing weather and storage concerns

Helps protect against rust and corrosion of highly finished precision parts when operating in humid conditions and during seasonal shutdown periods.

Minimal downtime

Good compatibility with seals, O-rings, and packing materials maintains their good condition and keeps leakage at a minimum.

Smooth operation

Formulated to suppress brake "chatter" and transmission "slip" for quiet and efficient action of brakes and transmission.

Reliable operation

Formulation helps keep metal parts clean and free of varnish and sludge deposits that could result in premature breakdown.

Product features:

- **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.
- **1000 THF** is formulated with highly refined base stocks, a viscosity index improver, oxidation and corrosion inhibitors, anti-wear and film strength additives, an antifoaming agent, and a pour point depressant.
- **1000 THF** is formulated to suppress brake "chatter" and excessive brake facing wear. It offers smooth operation of clutch packs and wet brakes, provides excellent shifting action, provides exceptional rust and corrosion protection for vital parts, and helps minimize leakage because of good compatibility with seals, O-rings, and packing materials.



Applications

1000 THF is approved for:

- ZF TE-ML 03E, 05F, 06K, 17E, 21F (ZF approval number ZF000100)
- Volvo 97303 (WB 101, approval number 97303:004)

1000 THF meets:

- Hitachi's requirements for aftermarket use in Rigid Dump Trucks (Model Code: EH3500 AC-3, EH4000 AC-3 & EH5000AC-3)
- John Deere - J20C

1000 THF is recommended for use:

- as a multifunctional fluid in many types of farm tractors and equipment
- in non-hypoid API GL-4 applications
- Hitachi mid-sized wheel loader axle applications, transfer case and hydraulics
- ABB Dodge - controlled startup transmissions
- In applications which call for the following OEM lubricant specifications:
 - AGCO — improved power fluid 821XL
 - Case Corporation — JIC-143, JIC-145, MS 1206, MS 1207, MS 1209, MS 1210 (TCH)
 - Case New Holland — MAT 3525, MAT 3505
 - Ford New Holland — ESN-M2C134-D, FNHA 2 C 201
 - Caterpillar TO-2
 - Oliver — Q-1705
 - White Farm Equipment — Q-1826
 - Massey Ferguson — M1135, M1141, M1143, M1145
 - Minneapolis-Moline — Q-1766, Q-1722, Q-1766B
 - International Harvester B6
 - Kubota UDT
 - Renk Doromat — 874A and 874B

1000 THF is also an excellent hydraulic fluid for many types of hydraulic systems requiring an antiwear hydraulic fluid in this viscosity range. It passes the High Pressure Vane Pump Test, ASTM D2882, with less than 15 mg steel weight loss.

Product features *continued:*

- **1000 THF** helps prevent sludge and varnish formation, helps protect metal surfaces against scuffing and wear, and provides outstanding lubrication for spur, helical, and spiral bevel final drive gears.



Typical key properties

1000 THF	
Product Code	510082
Pour Point, °C	-42
Viscosity, Brookfield cP @ -35°C	40,000
Viscosity, Kinematic cSt @ 40°C	58.4
cSt @ 100°C	9.5
Viscosity Index	145
Flash Point, °C	235
API Gravity	29.9

Minor variations in product typical test data are to be expected in normal manufacturing.

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ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Material Safety Data Sheet (MSDS) 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 a MSDS for this product, visit www.caltex.com.

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by:
Chevron Global Lubricants
– Asia Pacific