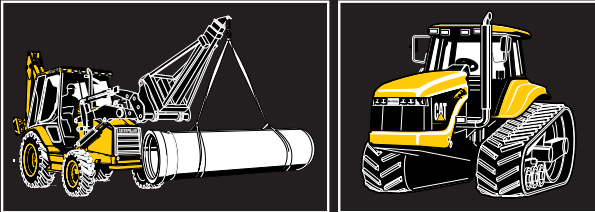


Multipurpose Tractor Oil (MTO)

For Caterpillar® Backhoe Loader Rear Axle and Challenger Tractors



Developed, tested and approved by Caterpillar, Multipurpose Tractor Oil (MTO) ensures optimum life and performance for use in specified Cat® components and systems; i.e., Backhoe Loader Rear Axle and Challenger Tractors.

Recommended Use

Application

	°C		°F	
	MIN	MAX	MIN	MAX
Ambient Temperature Range	-25	+40	-13	+104

- Other Caterpillar components and systems recommending the use of MPTF (Multipurpose Power Transmission Fluid) that meet Ford M2C134C/D specifications
- Can be used in Cat hydraulic systems
- Other OEM machines and components as specified under “Manufacturer’s (OEM) Requirements” table.

Note: For proper application in Cat as well as other OEM components and systems, you should always consult the Operation and Maintenance Manual for that machine or cat lubricant recommendation on the Internet.

Description

Cat Multipurpose Tractor Oil (MTO) is a next-generation standard in multi-purpose, extreme pressure, tractor fluid technology. It utilizes the latest additive technology and high quality solvent-refined base stocks to achieve outstanding improvements in enhanced shear stability in field service and optimized low-temperature performance. It also offers enhanced extreme-pressure wear protection, and stronger oxidation resistance and thermal stability under the most severe operating conditions. Cat MTO resists foaming, ensures excellent protection against corrosion and rust, prevents sludge and varnish deposits, and has outstanding seal compatibility.



Typical Characteristics*

Color (ASTM D1500)	3.0
Gravity, API	29.0
Density, lb/gal, 16°C (60°F) (ASTM D287)	7.35
Flash Point, °C (°F) (ASTM D92)	228 (442)
Pour Point, °C (°F) (ASTM D97)	-43 (-46)
Viscosity:	
Brookefield, cP at -20°C	5000
cSt at 40°C	55
cSt at 100°C	10
Viscosity Index (ASTM D567)	150
Zinc (% Wt.)	0.13 (MIN)

* The values shown are typical values and should not be used as quality control parameters to either accept or reject product. Specifications are subject to change without notice.

Multipurpose Tractor Oil (MTO)

Advanced formula for maximum performance and protection

- Considerable improvement in wet brake control.
- Enhanced shear stability in field service.
- Outstanding low-temperature, performance.
- Improved thermal stability for long service life in severe applications.
- Good water tolerance and protection from rust and corrosion.
- Good filterability for optimum hydraulic operation.
- Balanced friction for extended clutch life.
- Optimized wear protection of gears, pumps and hydraulic valves.

Manufacturer's (OEM) requirements**

Ford New	M2C134 C/D
John Deere	J20 A/C
Case	MS1205, MS1206, MS1207, MS1210
Massey Ferguson	M1135, M1141
White New Idea	Q-1802, Q-1826
Deutz-Allis	821 XL
Komatsu Dresser	B06-0001, N06-0002, 35VQ25A Pump
Cincinnati Milacron	P-68, P-69, P-70
Denison	HF-0, HF-1, HF-2
Allison	C-4
Vickers	35VQ25A Pump
Sundstrand	22 Axial Piston Pump

** Cat MTO does not meet Cat TO-4 and **should not** be used where Cat TO-4 fluids are recommended.

Fluid analysis for early detection

We recommend protecting your investment by using scheduled fluid analysis. Our S-O-S™ analysis program is the ultimate detection and diagnostic tool for your equipment, helping you head off potential problems before they can lead to major failures and costly unscheduled downtime.

Proper use for health and safety

According to available toxicology information, Multipurpose Tractor Oil (MTO), has little or no adverse effect on health when properly handled and used. No special precautions are suggested beyond attention to good personal hygiene, and avoiding prolonged, repeated skin contact. For more information, refer to the "Material Safety Data Sheet" which is located on the internet at Caterpillar's web site: <http://www.CAT.com>. If internet access is not available, contact your Caterpillar dealer.



Multipurpose Tractor Oil Part Numbers

Package Size	Part Numbers
English	
Bulk-GAL	155-6218
55 GAL	105-3334
5 GAL	105-3335
Metric	
Bulk-L	105-3333
208 L	120-5286
205 L	138-4271
200 L	126-2700
20 L	109-4395
19 L	112-9183
18 L	135-3189