MOTTA DT Series

Powershift Transmission & Drive Train Oil
SAE 10W | SAE 30 | SAE 50

Product Description

MOTTA DT Series provides powershift transmission fluids for off-highway equipment requiring controlled friction, gear and bearing protection, and hydraulic performance. The series is available in SAE 10W, SAE 30 and SAE 50. Select the fluid separately for each compartment; a transmission, final drive, wet-brake or hydraulic compartment may specify a different grade or fluid type.

Features and Benefits

Feature	Customer Benefit
Friction control	Supports controlled friction in wet brakes and clutches.
Gear and bearing protection	Helps protect loaded gears and bearings.
Oxidation stability	Helps resist oil degradation during service.
Viscosity selection	Allows selection to match compartment and operating-temperature requirements.

Applications

Powershift transmissions, final drives, wet-brake systems and hydraulic compartments where the equipment manufacturer specifies a TO-4 type fluid. Do not use this range as a general replacement for engine oil, passenger-car ATF, CVT or DCT fluid, or conventional hydraulic oil.

Performance Reference

Caterpillar TO-4 is the performance reference stated for this product. Select the fluid according to the requirements in the equipment manual.

Viscosity / Grade Selection

Confirm the required fluid type and SAE grade in the equipment manual for each compartment and ambient-temperature range. A typical pour point alone does not establish the safe starting temperature or pumpability. Use the corresponding OHI for filling, monitoring and maintenance guidance.

Typical Properties

Property	Test Method	Unit	DT-SAE10W	DT-SAE30	DT-SAE50
Kinematic Viscosity @ 100°C	ASTM D445	cSt	6.3	11.2	18.5
Kinematic Viscosity @ 40°C	ASTM D445	cSt	35	100	205
Viscosity Index	ASTM D2270		105	100	98
Flash Point (COC)	ASTM D92	°C	220	230	240
Pour Point	ASTM D97	°C	-30	-24	-18
Density @ 15°C	ASTM D4052	kg/m³	875	890	905
Copper Corrosion, 3 h @ 100°C	ASTM D130	rating	1b	1b	1b

Packaging and Availability

Packaging Item	Product Information
Available pack sizes	Subject to order and sales confirmation.
Pack format	Factory sealed packages, supplied according to market and order.
Grade identification	Labels identify viscosity grade and product information.

Health, Safety and Storage

Before handling, storage, transport or disposal, read the applicable Safety Data Sheet (SDS). Store in a cool, dry and well-ventilated area, keep original containers sealed, avoid contamination and maintain clear batch identification.

The above values are typical and do not constitute a sales specification. Product selection should follow equipment manufacturer requirements, operating conditions and maintenance practice.

This revision standardises the product name as MOTTA DT Series and updates document identification and the product-type descriptor. Viscosity grades, typical-property values, performance references and operating instructions are unchanged.