

# PRODUCT DATA SHEET



## Marathon Marafluid 4, TO-4 Fluids | Transmission & Drivetrain

### Product Description

Marathon Marafluid 4 is a TO-4 transmission and drivetrain fluid featuring highly refined base oils, premium additives, and heavy duty friction modifiers. This powerful combination satisfies the requirements of modern transmissions, final drive, oil immersed brake, and hydraulic systems on heavy duty off-road equipment. Its formulation helps clutches lock up quickly and securely.

Marafluid 4 SAE 10W provides optimal protection for light duty automatic transmissions. Marafluid 4 SAE 30 and 50 meet the requirements of off-road power shift transmission fluids. Marathon TO-4 fluids boast proven performance in all manufacturer tests and offer complete hydraulic system protection for power shift and power steering mechanisms.

### Features

- ➔ Anti-wear protection
- ➔ Optimal oxidation stability
- ➔ Reliable low temperature fluidity for cold weather performance
- ➔ Quells brake chatter
- ➔ Empowers clutches to lock up smoothly and firmly
- ➔ Resists foaming
- ➔ Expansive applications in transmissions, hydraulics, and gear cases, mean lower inventories

### Industry & OEM Applications

- Allison C-4 (off-road) and TES-439
- Caterpillar TO-4, TO-2
- Vickers M-2950-S for mobile hydraulics
- Komatsu KES 07.868.1
- Sperry Vickers / Eaton I-280-S
- API GL-4 and CF (obsolete)
- Suitable for use in ZF<sup>a</sup> Powershift
- Meets requirements for:
  - Dana Powershift
  - Eaton Fuller Transmissions
  - Tremac/TTC
  - Euclid Equipment
  - Terex Construction Equipment

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### Technical Data (typical values)

SAE Grade	ASTM	10W	30W	50W
Product Numbers		1627 (bulk), 1621 (55 g drum), 1622 (5 g pail)	1628 (bulk), 1623 (55 g drum)	1629 (bulk), 1625 (55 g drum)
Viscosity @ 100°C, cSt	D445	5.531	11.75	19.36
Viscosity @ 40°C, cSt	D445	29.83	99.91	214.5
Viscosity Index	D2770	125	106	102
Specific Gravity at 60°F	D4052	0.8584	0.8756	0.8894
Pour Point, °C	D5950	-45	-33	-21
Color ASTM	D1500	L2.0	L2.0	L4.0
Foam Characteristics (Seq. I 25/0, Seq. II 50/0, Seq. III 25/0)	D892	Pass	Pass	Pass
TBN, mg KOH/g	D4739	7.82	7.45	7.59
Flash Point, °C	D92	224	264	260

(1) Where TO-4 is called for

(2) Always follow your owner's manual recommendation. We do not recommend these fluids be used on a regular basis in any engine

The recommended shelf life for these oils is typically 48 months from manufacturing date when stored properly in the original sealed containers.

The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Marathon Petroleum Corporation believes the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.