

Product Code:

# 2603

# TO-4 Powertrain

Industrial TDTO®

Meets the requirements:

SAE 50

CATERPILLAR TO-4

KOMATSU KES 07.868.1

ALLISON C4 (off-road)

MANNOL TO-4 Powertrain Oil is a special gear oil for use in transmission, final drives, hydraulic, brake and other oil-cooled systems in construction, mining and off-road vehicles (tractors, loaders, bulldozers, excavators). Provides a longer life of the clutch discs. Meets the TO-4 requirements for lubricants TDTO® (Transmission/ Drive Train Oil) from Caterpillar. It is not recommended to mix the oil with other hydraulic and/or engine oils.



Test	Method	Unit	Result
SAE-class			50
Density at 15°C	D 1298	kg/m³	890
Viscosity at 40°C	D 445	CSt	212
Viscosity at 100°C	D 445	CSt	18,45
Dynamic Viscosity by Brookfield	D 2983	°C	58288
Viscosity index	D 2270		96
Flash point COC	D 92	°C	230
Pour point	D 97	°C	-30
TBN	D 2896	gKOH/kg	8,20

Volume:

10L	MN2603-10	208L	MN2603-DR
20L	MN2603-20	1000L	MN2603-IBC
60L	MN2603-60		

[www.mannol.de](http://www.mannol.de)

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# MANNOL®