



TITAN UTTO TO-4

Super High-performance multi functional transmission and drive-train lubricants for construction machinery.

Description

TITAN UTTO TO-4 oils are Super High Performance multi functional oils which have been specially designed to meet the rigorous requirements of the CATERPILLAR TO-4 specification.

Application

TITAN UTTO TO-4 can be used in power-shift transmissions, gearboxes, final drives and hydraulic systems, where the manufacture dictate the use of CATERPILLAR TO-4 oil. Additionally TITAN UTTO TO-4 is recommended when oil in accordance to API GL-4, KOMATSU KES 07.868.1, ZF TE-ML 03C, 07F and many other more is specified.

TITAN UTTO TO-4 is miscible and compatible with CAT-TO 2 oils, also as with conventional hydraulic fluids and engine oils. Therefore it's easy to change over to TITAN UTTO TO-4. Please choose the viscosity grade in accordance to manufacturer's recommendations and the operational conditions.

Advantages/Benefits

- Excellent foam control protection
- Top performance in wet brakes
- Excellent control of brake chatter
- Extended friction-lining life of brakes and clutches
- Outstanding wear control for gears and hydraulic
- Improved thermal and oxidation stability
- Wide application range
- Great choice of viscosity grades (SAE 10W / 30 / 50) for all operation conditions.

Specifications/Approvals

- API GL-4
- CAT TO-4
- KOMATSU KES 07.868.1
- ZF TE-ML 03C, 07F

FUCHS Recommendations

- ALLISON C-4 (SAE 10W & 30)
- DANA
- EATON



CHARACTERISTICS

TITAN UTTO TO-4 SAE 10W

Density @ 35 °C	0.886	g/ml	ASTM D 4052
Flash Point, CoC	220	°C	ASTM D 92
Pour Point	-30	°C	ASTM D 97
Kinematic Viscosity @ 40 °C	36	mm ² /s	ASTM D 445
Kinematic Viscosity @ 100 °C	5.8	mm ² /s	ASTM D 445
Viscosity Index	103	-	ASTM D 2270

TITAN UTTO TO-4 SAE 30

Density @ 35 °C	0.898	g/ml	ASTM D 4052
Flash Point, CoC	250	°C	ASTM D 92
Pour Point	-21	°C	ASTM D 97
Kinematic Viscosity @ 40 °C	105	mm ² /s	ASTM D 445
Kinematic Viscosity @ 100 °C	11.5	mm ² /s	ASTM D 445
Viscosity Index	96	-	ASTM D 2270

TITAN UTTO TO-4 SAE 50

Density @ 35 °C	0.891	g/ml	ASTM D 4052
Flash Point, CoC	260	°C	ASTM D 92
Pour Point	-24	°C	ASTM D 97
Kinematic Viscosity @ 40 °C	199	mm ² /s	ASTM D 445
Kinematic Viscosity @ 100 °C	17.6	mm ² /s	ASTM D 445
Viscosity Index	96	-	ASTM D 2270

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While the information and figures given here are typical of current production and confirm to specification, minor variations may occur. No warranty expressed or implied is given concerning the accuracy of the information or the suitability of the product

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