

# AWARD Synthetic Trans Fluid TO-4 Multi-Grade

PREMIUM MULTI-GRADE SYNTHETIC TRANSMISSION FLUID FOR CATERPILLAR TRANSMISSIONS

## PRODUCT LINE

AWARD Synthetic Trans Fluid TO-4 MG was designed to perform in both very cold and hot environments, eliminating the need for seasonal product changes for Caterpillar transmission and final drives. This product is designed with the latest additive technology for new Caterpillar machines and has been field tested to show an increase in transmission disc life up to 45%.

## APPLICATIONS

AWARD Synthetic Trans Fluid TO-4 MG is designed for Caterpillar transmissions and any mobile equipment where conventional motor oils are accepted in hydraulic, transmission, gears and wet brake applications that require TO-4 fluids but also require better low temperature flow.

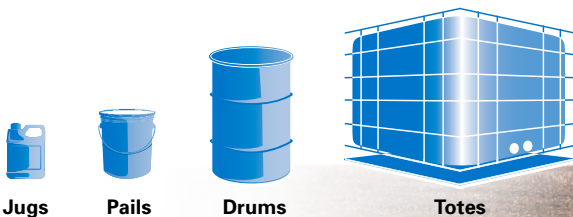
AWARD Synthetic Trans Fluid TO-4 MG is viscometrically equivalent to SAE 10W-30 and is recommended for product consolidation of 10W and 30W single grades, reducing energy usage, and extending drain intervals versus conventional TO-4 products.

AWARD Synthetic Trans Fluid TO-4 MG is primarily intended for power shift transmissions, clutches and brakes, final drives, bevel gears and differentials, and other such drive train components.

## PERFORMANCE BENEFITS

AWARD Synthetic Trans Fluid TO-4 MG is formulated with a thermally stable chemical package which provides oxidation and anti-wear properties that increase the life of the bronze friction discs by demonstrating less slip. This increases the load carrying capacity of the clutches above that of typical qualified engine oil.

### Available In These Sizes



## TYPICAL PROPERTIES

SAE GRADE	10W-30	ASTM TEST METHOD
Viscosity @ -30°C, cP	5000	D2602
Viscosity @ 40°C, cSt	58.0	D445
Viscosity @ 100°C, cSt	10.5	D445
Viscosity Index	175	D2270
Pour Point, °C (°F)	-45 (-49)	D97
Flash Point, COC, °C (°F)	220 (428)	D92
Color	2.0	D1500
Gravity, °API	31.5	D287
Sulfated Ash, % wt	1.6	D874
Zinc, min.	0.090	D1549
Foaming: with 0.1% / without water	-	-
Sequence III	20/0	D892
Sequence II	50/0	D892
Sequence I	20/0	D892

## PERFORMANCE SUMMARY

SPECIFICATIONS AND APPROVALS	AWARD SYN TO-4 MG
Caterpillar TO-2, TO-4, TO-4M, TDTO, TMS	Yes
Allison C3, C4	Yes
API CD, CF, GL-1, 2, and 3	Yes
Komatsu Micro-Church	Yes

*\*Always consult with original equipment manufacturer's recommendations for specific performance and viscosity requirements.*

*\*Extending drain intervals should always be undertaken in conjunction with a regular oil analysis program.*

*\*Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notice.*

### Health & Safety

This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

### MSDS

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed.

MSDS can be found at:

<http://www.afdpetroleum.com/MSDS.aspx>

