

ENGEN TRANSFLUID TO-4 SERIES

DESCRIPTION

These premium quality TO-4 fluids have been formulated specifically for transmissions and drive trains of equipment requiring lubricants having high levels of oxidation stability, the ability to reduce gear wear plus improved friction properties and elastomer compatibility. The performance of these lubricants has been defined by the Caterpillar Company, as a result of comprehensive test evaluation of frictional requirements, wear tests and viscosity, chemical and physical properties, stemming from concerns that modern day diesel engine lubricants, meeting the Cat. TO-2 requirements, are placing more emphasis on reduced engine emissions than the transmissions protection and longevity.

APPLICATION

Although these oils have been classified in terms of SAE engine oil viscosity ratings, they have mainly been formulated for transmissions and drive trains only, and should not be used as an engine crankcase oil as has previously been the case of API CD diesel engine oils meeting the Cat TO-2 oil requirements. Thus, with the development of more specialised drive trains, coupled with the legislation being imposed on diesel engine exhaust emissions in the USA and Europe, the need for specialised lubricants has superseded the convenience of multi-purpose lubricants.

PERFORMANCE LEVEL

Meets the following performance levels:
Caterpillar T0-4, Allison C-4.

BENEFITS

- Improved oxidation stability.
- Reduced gear wear.
- Superior frictional properties for drive trains.
- Better elastomer compatibility.

TYPICAL PHYSICAL CHARACTERISTICS

Engen Transfluid TO-4 Oil SAE	10W	30	40	50	60
SAE No.	10W	30	40	50	60
Viscosity, cSt @ 40 °C	36	106	152	236	322
cSt @ 100 °C	5,9	11,6	14,8	19,5	24,3
Viscosity Index	96	96	96	95	90
Flash Point, °C	210	228	230	232	242
Pour Point, °C	-30	-15	-12	-12	-6
Density @ 20 °C	0,881	0,893	0,899	0,90	0,901
Total Base No.	10,5	10,5	10,5	10,5	10,5
ISLS Grade	ODT-10	ODT-30	ODT-40	ODT-50	ODT-60