

LSA TRANSFLUID 410 LSA TRANSFLUID 450

Transmission and drive train oils (TDTO) designed to optimize performance in a wide range of automotive, mining, agriculture and earthmoving equipment applications incorporating hydraulic, hydrostatic transmission systems, final drives and oil immersed brakes.

They have passed the strict requirements of Caterpillar TO-4 and Allison C4 specifications, including gear wear requirements.

LSA TRANSFLUID 410 has excellent low temperature behavior which ensures easier cold weather operations.

LSA TRANSFLUID 430 is suitable for use in all farm equipment and powershift transmissions in off highway equipment, plus Allison heavy duty automatic transmissions where above 30°C ambient temperature is usual. It can be used as a rationalization grade for universal use in all final drives. Less than 30°C use **LSA TRANSFLUID 410**.

LSA TRANSFLUID 450 is for use in older Road Ranger manual gear boxes where an SAE 50 engine oil or SAE 90 gear oil is specified.

LSA TRANSFLUID 460 is for use in final drives and differentials which specify the use of Caterpillar TO-4 in high ambient temperatures.

Meets the following performance requirements:

	Transfluid			
	410	430	450	460
API CF-2 (Not for Engine Oil use)		✓		
API GEARS MT-1			✓	✓
ALLISON C4	✓	✓	✓	✓
CATERPILLAR TO-4	✓	✓	✓	✓
CATERPILLAR TO-4M	✓	✓	✓	✓
DANA POWERSHIFT	✓	✓		
EATON FULLER ROAD RANGER			✓	✓
KOMATSU KES 07.868.1 Power Train	✓	✓		
KOMATSU DRESSER	✓	✓	✓	✓
SPICER CLARK-HURTH	✓	✓		
TREMEC/TTC			✓	
VICKERS 35 VQ25	✓	✓		
ZF TE-ML 03C	✓	✓		
ZF TE-ML 07F		✓		

LSA TRANSFLUID 430 LSA TRANSFLUID 460

ADVANTAGES

- Meets and exceeds the requirements of Caterpillar TO-4 and Allison C-4 specifications.
- Fully compatible with all components and materials used in mixed fleets.
- Provides outstanding levels of friction, wear, and rust protection, plus seal compatibility.
- Suitable for modern complex powershift transmissions, wet-disk brakes and final drives.
- Molecular structure produces a highly shear stable product.
- Protects against oxidation and corrosion of ferrous and non-ferrous materials, with resistance to sludge formation.
- Stable friction control characteristics which also reduce brake noise, gear wear and clutch slippage.

APPLICATION

- Miscible with all mineral oil and synthetic oil. Therefore no flushing is required

TYPICAL CHARACTERISTICS

Properties	Unit	Value 410	Value 430	Value 450	Value 460
SAE Grade		10W	30	50	60
Density @ 15 °C	Kg/L	0.88	0.89	0.90	0.90
Viscosity @ 40°C	cSt	35.9	99.5	198	296
Viscosity @ 100°C	cSt	5.9	11.3	18.0	23.5
Viscosity Index		107	99	99	99
Flash Point	°C	210	236	260	260
Pour Point	°C	-20	-15	-10	-5
Zinc	ppm	1058	1058	1058	1058

Package sizes 1000 litre
205 litre
20 litre