

NATIONAL HT Fluid

NATIONAL HT Fluid series is designed for heavy-duty powershift transmissions and drivetrains. It exceeds the requirements of Off-Highway OEM specifications for powershift transmissions, final drives, and hydraulic systems. It is engineered to provide wide coverage for many types of off-road equipment, making it suitable for customers with mixed fleets.

Benefits

- Optimized friction and compatibility for all clutch surfaces, including metallic and non-metallic.
- Clutch slippage protection even under heavy loads on steep inclines, thereby improving clutch life.
- Prevents brake noise and chatter in wet brake applications.
- Excellent anti-oxidation properties resist sludge formation, ensuring reliable equipment operation.
- Exceptional anti-wear chemistry protects transmissions, final drives, extending component life.

Meets/Exceeds

- CAT TO-4 and TO-4M
- Allison C-4
- API MT-1 and API CF
- ZF TE-ML-03C/07F
- Komatsu KES07.868.1
- JB/T 12194-2015 China #8 type

Applications

- Final Drives, loaders, skidders, compactors, motor graders, off-highway tractors, and trucks.
- Heavy duty transmissions, final drives, and hydraulic systems in off-highway applications.
- Manual, powershift, and automatic transmissions where Allison C-4 & CAT TO-4 fluids are recommended.
- Mobile hydraulic applications.

Product Characteristics

Properties	Test Method	Unit	SAE 10W	SAE 30	SAE 50
Density @ 15 °C	ASTM D4052	kg/L	0.8847	0.8949	0.9037
Kinematic Viscosity at 40 °C	ASTM D445	cSt	33.8	94.2	206.7
Kinematic Viscosity at 100 °C	ASTM D445	cSt	5.7	10.9	18.4
Viscosity Index	ASTM D2270	-	106	100	98
Flash Point, COC	ASTM D92	°C	232	244	252
Pour Point	ASTM D97	°C	-33	-21	-18
Product Code			274022	275022	276022

- Information, test methods, figures are typical and conform to specification; minor variation may occur.
- Refer Owner's Manual for the manufacturer's recommended performance level, viscosity grade and builder approval requirements.
- Please refer to the product Safety Data Sheet (SDS) for health, safety, and handling information.

