



MULTITRANS PLUS ATF

PRODUCT DESCRIPTION

Hi-Tec MULTITRANS PLUS ATF is a premium full synthetic automatic transmission fluid. It is OEM approved by ZF Friedrichshafen AG to the ZF TE-ML 14C and ZF TE-ML 20C specifications and by Voith Turbo GmbH & Co. to the Voith 55.6336.XX (G1363) specification for use in the transmissions of North American, European and Asian cars, buses, trucks and industrial equipment.

The ZF TE-ML 14C performance level allows oil and filter change intervals up to 120,000 km or two years in ZF Ecomat powershift transmissions in buses. For trucks and off road equipment, this specification allows for oil and filter change intervals up to 1500 hours/1 year under normal service conditions or 1000 hours/1 year under severe conditions. The ZF TE-ML 20C performance level allows oil and filter change intervals up to 120,000 kms or two years in ZF Ecolife powershift transmissions in buses.

The Voith 55.6336.XX (G1363) approval provides for an extended service interval (i.e. up to 120,000 km distance) in Voith DIWA transmissions.

Hi-Tec MULTITRANS PLUS ATF has exceptional oxidative resistance, anti-wear performance and frictional stability. It provides excellent antirust properties and sludge and varnish control. Its multivehicle applicability allows reduction of inventory of transmission fluids.

Hi-Tec MULTITRANS PLUS ATF also meets the Ford Mercon[®] V, Allison C-4, JASO 1-A, MAN 339 V1 and MAN 339 Z1, and Volvo 97340 and 97341, and ZF TE-ML 14A and 14B requirements. It is suitable for use in equipment requiring GM Dexron[®] IIIH and Ford Mercon fluids.

CHARACTERISTICS

OUTSTANDING COLD FLOW PROPERTIES

Allows for rapid oil flow to all critical transmission components (i.e. torque converters, friction plates, planetary wheels and brake bands). More responsive and comfortable gear shifts. Minimizes 'shift shock' when gear shifts occur at low temperature. Reduced torque loss increases efficiency leading to fuel savings potential. Less fuel consumption means lower emissions.

OPTIMISED FRICTION CHARACTERISTICS

Smoother gear shifts at all ambient temperatures and load conditions. Consistent frictional properties improve driver comfort. Very long anti shudder durability for comfortable gear changes without noise, vibration or harshness. Avoids foaming tendencies in transmissions so that full-bodied lubricant is maintained to all surfaces requiring lubrication.

EXCELLENT THERMAL AND OXIDATIVE STABILITY

Viscosity change with usage remains minimal helping prevent deposits and oil thickening – this extends transmission life. Excellent transmission cleanliness under high temperature and high load conditions permits extended oil drain intervals and decreased servicing.

SPECIFICATIONS

Hi-Tec MULTITRANS PLUS ATF is specifically designed to meet the ZF TE-ML 14C and ZF TE-ML 20C transmission requirements: ZF Registration No. ZF001669.

Hi-Tec MULTITRANS PLUS ATF will provide suitable performance in numerous passenger cars applications including:

AE, Aisin Warner, Audi, BMW, Chrysler, Daimler, Ford Mercon, GM Dexron, Honda, Hyundai, Jaguar, JASO, JATCO, JWS, Kia, Mazda, Mercedes Benz, Mitsubishi, Nissan, Rover, Saab, Subaru, Toyota, Volvo, VW and ZF; as well as commercial applications including Allison, MAN, Voith and MB (see Hi-Tec Multitrans Plus ATF Part B for a full list).

* Note: Hi-Tec Multitrans Plus ATF is not suitable for use with Continuously Variable Transmissions, Dual Clutch Transmissions or Ford Type F applications.

Always consult your vehicle owner's manual for the manufacturer's recommendations.

TYPICAL PROPERTIES

Property	ASTM Method	Results
Colour	Visual	Red
Density (kg/Lt) @ 15°C	D-1298	0.838
Viscosity (cSt) @ 40°C	D-445	36.45
@ 100°C	D-445	7.6
Viscosity Index	D-2270	184
Brookfield (cP) @ -40°C	D-2983	7,510
Pour Point (°C)	D-97	-50
Flash Point (°C)	D-92	226
Foam	D-892	Pass
Rust Protection	D130, 665A	Pass
FZG, Fail Load	DIN 513554	>12