ATF HD 389

High performance automatic transmission fluid

Product description

ATF HD 389 is a high performance automatic transmission fluid designed for use in Allison on-highway heavy-duty transmissions, which require a TES-389 Schedule One ATF. ATF HD 389 is also suitable for use in passenger car, light truck and bus transmissions requiring a DEXRON®-III H fluid.

ATF HD 389 is formulated with premium base oils in combination with advanced additive technologies designed to deliver robust oxidation and thermal stability; reliable friction control; good load carrying capability and long-term wear and corrosion protection. ATF HD 389 is formulated to help protect against harmful deposit, sludge and varnish formation, offering a long, low maintenance system service life under severe operating conditions.

Customer benefits

- Advanced formulation promotes protection against wear and corrosion in gears, bearings and clutch systems, helping increase uptime
- Helps maintain reliable friction control for smooth shift action
- Supports seal compatibility, helping prevent cracking – especially effective in protecting fluoroelastomer seals used in Allison heavy-duty transmissions
- Base oil and additive combination helps to offer advanced oxidation stability, aiding protection against lacquers, sludge, and other harmful deposits
- Reliable low-temperature fluidity promotes rapid oil circulation and wear protection during cold weather start-up

Product highlights

- **Promotes wear and corrosion protection in gears, bearings and clutch systems**
- **Helps maintain reliable friction control**
- **Supports seal compatibility, helping prevent cracking**
- **Helps to offer protection against lacquers, sludge, and other deposits**
- **Promotes cold weather start protection**

Selected specification standards include:

Allison	Bosch
Caterpillar	Daimler Truck
Ford	GM
Toyota	Volvo
Weber-Hydraulik	ZF

Applications

- ATF HD 389 is designed for Allison on-highway, heavy-duty transmissions which require a TES-389 Schedule One ATF.
- ATF HD 389 is also suitable for use in most pre-2006 automatic transmissions built by General Motors, Ford Motor Company and other makes which need a high-performance, multi-purpose, power transmission fluid.
- ATF HD 389 may be used in BMW vehicles fitted with GM 4L30-E 4-speed transmissions and GM 5L40-E 5-speed transmissions (gasoline models)
- ATF HD 389 may also be used in power assisted steering systems that permit the use of a Dexron-III type fluid. It should not be used in steering or active suspension systems that call for specific semi-synthetic or synthetic fluids, as the response speed may not be sufficiently fast.
- ATF HD 389 may also be used as a wide temperature range anti-wear hydraulic fluid for mobile, industrial and marine applications. The viscosity corresponds to ISO VG 32.

Approvals, performance and suitable for use

Approvals	**Approval number**
• Allison TES-389	AA-33902015
• Weber-Hydraulik	Hydraulic cab cylinder Hydraulic hand pump

Performance

• Volvo	97340

Suitable for use

• Allison	C-4
• Bosch	TE-ML 09 [1]
• Caterpillar	TO-2
• Daimler Truck	DTFR 13B170 (formerly MB 236.5)
• Ford	M2C138-CJ
• Ford	M2C166-H
• Ford	Mercon
• General Motors	DEXRON-III H
• Toyota	Type T
• ZF	TE-ML 04D

[1] List formerly administered by ZF. Products meeting the necessary performance requirements are approved for use, but there is no product listing

Typical test data

Test	Test Methods	Results
Shelf Life: 60 months from date of filling indicated on the product label.		
Viscosity, Kinematic, 100°C, mm²/s	ASTM D445	7.1
Viscosity, Kinematic, 40°C, mm²/s	ASTM D445	34.9
Viscosity, Brookfield, -40°C, mPa.s	ASTM D2983	13,700
Viscosity Index	ASTM D2270	172
Density, 15°C, kg/l	ASTM D4052	0.856
Flash Point COC, °C	ASTM D92	220
Pour Point, °C	ASTM D5950	-51
Colour	—	Red

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevro may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS

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