



# Synthetic ATF Heavy Duty

## Ultra high performance synthetic automatic transmission fluid

### Product description

Synthetic ATF Heavy Duty is an ultra high performance heavy duty synthetic transmission fluid. It is designed to deliver significantly extended drain capabilities.

It contains superior quality synthetic base oils and advanced additive technologies and is suitable for use in automatic transmission systems in both heavy duty trucks and buses, as well as passenger cars.

### Customer benefits

- At least twice the drain capacity of conventional transmission fluids
- Specially tuned friction characteristics provide smooth shifts and lock-ups
- Excellent friction durability maintains fluid and transmission performance throughout fluid lifetime
- Excellent low temperature fluidity ensures optimum wear protection at cold start-up
- Robust oxidation stability prevents harmful varnish, sludge and deposit formation
- High VI ensures maximum high operating temperature protection
- Wide range elastomer compatibility prevents hose and seal deterioration
- Corrosion resistance protects against automatic transmission fluid cooler damage

### Product highlights

- **Double extended drain capacity**
- **High level transmission protection**
- **Wide temperature protection**

#### Selected specification standards include:

Allison	Ford
GM	MAN
Mercedes	Voith
Volvo	ZF

### Applications

- Synthetic ATF Heavy Duty is designed for extended drain in heavy duty automatic truck and bus transmissions, and has official approvals from Voith and ZF. (Synthetic ATF Heavy Duty is not approved by Allison, but extensive fleet testing has demonstrated its suitability in applications calling for TES-389 and TES-295 performance levels)
- Synthetic ATF Heavy Duty is suitable for off-road equipment fitted with automatic transmissions
- Synthetic ATF Heavy Duty is suitable for use in many passenger car 4- and 5-speed automatic transmissions. Due to some specific frictional and/or viscometric requirements, Synthetic ATF Heavy Duty is not recommended for passenger car automatic transmissions with 6 or more speeds, or in applications that require a Ford M2C33-F/G fluid
- Synthetic ATF Heavy Duty is also suitable for use in power steering systems that require an ATF. 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. Synthetic ATF Heavy Duty 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 recommendations

#### Approvals

- MAN 339 Type V2<sup>3</sup>
- MAN 339 Type Z2<sup>3</sup>
- MAN 339 Type L1<sup>3</sup>
- Mercedes MB-Approval 236.9
- Voith H55.6336.xx
- Volvo 97341<sup>1</sup>
- ZF TE-ML 03D<sup>2</sup>
- ZF TE-ML 04D<sup>2</sup>
- ZF TE-ML 14B<sup>2</sup>
- ZF TE-ML 16L<sup>2</sup>
- ZF TE-ML 17C<sup>2</sup>
- ZF TE-ML 20B<sup>2</sup>

#### Recommendations

- Allison C-4
- Allison TES-295
- Allison TES-389
- Ford MERCON V
- GM DEXRON-IIIH
- ZF TE-ML 14C
- ZF TE-ML 09

<sup>1</sup> Volvo approval number: 042

<sup>2</sup> ZF registration number: ZF001219

<sup>3</sup> MAN approval number: TUC 0071/15

## Synthetic ATF Heavy Duty – Continued

Typical test data		
Test	Test methods	Results
<b>Shelf Life: 60 months from date of filling indicated on the product label</b>		
Appearance	Visual	Red
Viscosity Kinematic, 40°C, mm <sup>2</sup> /s	ASTM D445	35.3
Viscosity Kinematic, 100°C, mm <sup>2</sup> /s	ASTM D445	7.4
Viscosity, Brookfield, -20°C, mPa.s	ASTM D2983	1060
Viscosity Brookfield, -40°C, mPa.s	ASTM D2983	11400
Viscosity Index	ASTM D2270	183
Density, 15°C, kg/l	ASTM D1298	0.854
Flash Point COC, °C	ASTM D92	216
Pour Point, °C	ASTM D5950	-49

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

**Disclaimer** Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheets.

**Health, safety, storage and environmental** Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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