



HEAVY DUTY SYNTHETIC BLEND AUTOMATIC TRANSMISSION FLUID

Introduction

Petro-Canada HEAVY DUTY SYNTHETIC BLEND Automatic Transmission Fluid is specially formulated to perform under the demanding severe service operating conditions found in heavy duty transmission systems. It is designed for use in commercial applications where a Severe Duty and Extended Drain Interval fluid is specified. HEAVY DUTY SYNTHETIC BLEND ATF is fully approved for extended drain application in Voith and ZF commercial transmissions. Field testing has also confirmed it is suitable for use in extended drain application in Allison commercial transmissions. Its enhanced thermal and oxidative stability together with its improved high and low temperature properties offer excellent performance in a wide range of transmissions. HEAVY DUTY SYNTHETIC BLEND ATF starts with the HT purity process to produce 99.9% pure, crystal clear PURITY™ and VHVI Base oils. By removing the impurities that hinder the performance of competitive conventional ATF fluids, HEAVY DUTY SYNTHETIC BLEND ATF retains its fresh oil properties longer resulting in superior product performance. HEAVY DUTY SYNTHETIC BLEND ATF is formulated with a combination of PURITY and VHVI Base Oils and a leading-edge additive system.

Features and Benefits

- **Outstanding resistance to oxidative and thermal breakdown**
 - Prevents corrosion and the formation of harmful sludge and deposits. Keeps transmissions clean & properly functional
 - Suitable for severe service & extended drain
- **Exceptional low / high temperature fluidity**
 - Delivers quick lubrication of transmission components in cold weather
 - Maintains desired viscosity & oil film strength in high temperature operation
 - Earlier drive away and smooth gear shifting during low temperature operation
 - Extends clutch life
 - Efficient heat removal from clutch surfaces
 - Excellent high and low temperature properties

- **Excellent anti-wear protection**
 - Reduces wear on bearings, bushings and gears
 - Suitable for heavy loading & high operating temperature
 - Protects clutches from glazing
- **Stable friction properties**
 - High torque capacity avoids clutch slippage & wear
 - Maintains transmission efficiency & fuel economy
 - Suitable for stop-start severe service
 - Excellent shift quality throughout service life
 - Prevents clutch shudder in modulated torque converters
 - Clutch plates and bands last longer
- **Compatible with all transmission seal materials**
 - Helps maintain seal integrity

Applications

Petro-Canada HEAVY DUTY SYNTHETIC BLEND ATF is suitable for use in heavy duty fleets for up to 50,000 miles in severe service and 100,000 miles in normal service as defined by the OEM Guidelines.

- Approved for: Voith (Voith G1363) and ZF (ZF TE-ML 14B) extended drain applications and Allison C-4, as well as listed on H55.633642 Approval list.
- Carries 72,000 mile extended drain approval by Voith Turbo as per Voith Service Bulletins DSB013 and DSB118. Heavy Duty Synthetic Blend ATF is the only fluid endorsed by Voith Turbo with an extended basic warranty coverage and discounted extended warranty package.
- Suitable for use where Allison TES-295, Caterpillar TO-2, MB 236, MAN 339, Volvo 97341 or MERCON® -V is recommended.
- Also approved for ZF TE-ML 02F, 03D, 04D, 16L, and 17C.

What is the HT difference?

Petro-Canada starts with the HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



- May also be used in automatic transmissions where a fluid meeting the former DEXRON® -III(H), -III(G), -II(E), or -II specification was recommended. GM recommends the use of DEXRON® -VI for all GM automatic transmissions.

It can also be used as a hydraulic or power steering fluid.

Typical Performance Data

PROPERTY	TEST METHOD	HEAVY DUTY SYNTHETIC BLEND ATF
Density, kg/l @ 15°C (60°F)	ASTM D4052	0.854
Colour	—	Red
Flash Point, COC, °C (°F)	ASTM D92	189 (372)
Pour Point, °C (°F)	ASTM D5950	-45 (-49)
Viscosity, cSt @ 40°C (SUS @ 100°F) cSt @ 100°C (SUS @ 210°F)	ASTM D445	34 (173) 7.8 (52)
Viscosity Index	D2270	208
Brookfield Viscosity, cP @ -40°C (-40°F)	ASTM D2983	9,700
Qualification Numbers Ford Allison ZF Voith Turbo	— — — —	MERCON®-V M5970801 C-4-29493700 ZF TE-ML 14B 55.6336.3x (G1363)

The values quoted above are typical of normal production. They do not constitute a specification.

DEXRON® is a registered trademark of General Motors LLC.
MERCON® is a registered trademark of Ford Motor Corp.

Health and Safety

To obtain Material Safety Data Sheet (MSDS), contact one of Petro-Canada's TechData Info Lines.



TechData Info Lines

To place an order, please call a Customer Order Management Representative at :

Canada (English) Phone 1-800-268-5850
(French) Phone 1-800-576-1686
United States Phone 1-877-730-2369
Latin America Phone +1-416-730-2369
Europe Phone +1-416-730-2389
Asia Phone +1-416-730-2372
China Phone +86 (21) 6362-0066

To learn more about how Petro-Canada lubricants, specialty fluids, oils and greases can help maximize your equipment performance, savings and productivity, please contact us at :

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Beyond today's standards.

