



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 patented 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.
- Suitable for use where Allison TES-295, Caterpillar TO-2 or MERCON®-V is recommended.
- Also approved for ZF TE-ML 02F, 03D, 04D, 16L, and 17C.
- May also be used in automatic transmissions where a fluid meeting the former DEXRON®-IIIH, -IIIG, -IIE, 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.

What is the HT difference?

Petro-Canada starts with the patented 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.



Typical Performance Data

PROPERTY	TEST METHOD	HEAVY DUTY SYNTHETIC BLEND ATF
Density, kg/l @ 15°C (60°F)	ASTM D4052	0.854
Colour	Visual	Red
Flash Point, °C (°F)	ASTM D92	186 (367)
Pour Point, °C (°F)	ASTM D97	-49 (-56)
Viscosity, cSt @ 40°C (SUS @ 100°F) cSt @ 100°C (SUS @ 210°F)	ASTM D445	34.0 (171) 7.6 (51.3)
Viscosity Index	D2270	200
Brookfield Viscosity, cP @ -40°C (-40°F)	ASTM D2983	10,500
Qualification Numbers Ford Allison ZF Voith Turbo	- - - -	MERCON®-V M5970801 C4-29493700 ZF TE-ML 14B 55.6336.3x (G1363)
Product Identification Code		PCHDATF
Available Package Size		Bulk, 205L Drum, 20L Pail

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

Health and Safety

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

TechData Info Lines

If you would like to know more about Petro-Canada's DUTY SYNTHETIC BLEND ATF, or any other product in our complete line of quality lubricants, please contact us at:

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Beyond today's standards.

