



A HOLLYFRONTIER BUSINESS

TECH DATA

DURADRIVE™ HEAVY DUTY (HD) AUTOMATIC TRANSMISSION FLUIDS

INTRODUCTION

DuraDrive HD Synthetic Blend and DuraDrive HD Long Drain Automatic Transmission Fluids are specially formulated to perform under the demanding severe service operating conditions found in heavy duty transmission systems. They are designed for use in commercial applications where Severe Duty and Extended Drain Interval fluids are specified.

DuraDrive HD 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.

DuraDrive HD Long Drain ATF is a full synthetic transmission fluid approved for maximum drain in Voith transmissions. This heavy duty ATF offers excellent wear protection, oxidation control and friction durability demonstrated through extensive rig testing and field trial. The enhanced thermal and oxidative stability together with the improved high and low temperature properties of these fluids translates to excellent performance in a wide range of transmissions.

DuraDrive HD ATFs are formulated with HT Purity Process 99.9% pure base oils. By removing the impurities that hinder the performance of competitive conventional ATF fluids. The combination of PURITY™ base oils and leading-edge additive systems in DuraDrive HD ATF formulations helps retain their fresh oil properties longer resulting in superior product performance.

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

Petro-Canada Lubricants 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.



APPLICATION CHART

OEM Specification	DuraDrive HD Synthetic Blend ATF	DuraDrive HD Long Drain ATF
	This ATF is suitable for use in heavy duty fleets for up to 80,000 km (50,000 miles) in severe service and 160,000 km (100,000 miles) in normal service as defined by the OEM Guidelines.	This ATF is suitable for use in heavy duty fleets for extended 120,000 km (75,000 miles) and up to 180,000 km (112,000 miles) as defined by the OEM Guidelines.
Voith H55.6335.xx (standard drain, 60K km)	Approved	-
Voith H55.6336.xx (extended drain, 120K km)	Approved	-
Voith 150.014524.xx (maximum drain, 180K km) xx- VTI-DIWA Service Bulletins 013 and 118	-	Approved
ZF TE-ML 14B (extended drain)	Approved (ZF004790)	-
ZF TE-ML 03D, 04D, 16L, 17C	Approved (ZF004790)	-
ZF TE-ML 14C, 20C, 04D, 16M, 16S, 25C	-	Approved (ZF004791)
Allison TES-295	SFU	-
Allison C-4 (legacy)	C-4 29493700	-
MAN 339 Typ V2, Z2	SFU	-
MAN 339 Typ V3, Z3, Z12	-	Approval Pending*
Mercedes-Benz MB 236.1/ .5/ .6/ .7	SFU	-
Mercedes-Benz MB 236.9	-	Approval Pending*
Volvo STD 1273,41 - transmission oil 97341 (AT101)	SFU	Approved (#97341-079)
Caterpillar TO-2 (obsolete)	SFU	-
Ford MERCON® V	SFU	-
GM DEXRON®-III(H), -III(G), -II(E), or -II	SFU	-

They can also be used as a hydraulic or power steering fluids.

SFU = Suitable for use

* Paperwork in progress

TYPICAL PERFORMANCE DATA

Property	Test Method	DuraDrive HD Synthetic Blend ATF	DuraDrive HD Long Drain ATF
Density, kg/l @ 15°C (60°F)	ASTM D4052	0.854	0.841
Colour	—	Red	Red
Flash Point, COC, °C (°F)	ASTM D92	189 (372)	243 (469)
Pour Point, °C (°F)	ASTM D5950	-45 (-49)	-45 (-49)
Viscosity, cSt @ 40°C (SUS @ 100°F) cSt @ 100°C (SUS @ 210°F)	ASTM D445	34 (173) 7.8 (52)	38 (178) 7.2 (50)
Viscosity Index	ASTM D2270	208	154
Brookfield Viscosity, cP @ -40°C (-40°F)	ASTM D2983	9,700	14,800

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

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