

DURADRIVE™ DCT MV SYNTHETIC TRANSMISSION FLUID

MULTI-VEHICLE WET DUAL OR DOUBLE CLUTCH TRANSMISSION FLUID (DCTF)

Introduction

DuraDrive™ DCT MV Synthetic is a full synthetic transmission fluid for wet dual or double clutch transmissions that offers true multi-vehicle performance. This fluid has been formulated to meet the unique performance requirements of dual clutch transmissions. The optimized formulation delivers optimum frictional response to meet the requirements of the clutches and excellent load-carrying capacity and synchronesh performance for protection of the gearbox. DuraDrive DCT MV Synthetic provides excellent gear wear and corrosion protection, extended anti-shudder durability and reliable low temperature fluidity ensuring the transmission is protected over the life of the fluid for most dual clutch transmissions.

It was engineered with a careful balance between viscosity and gear wear protection to deliver fuel economy and optimal lubrication to gears, shafts, bearings and synchronizers. DuraDrive DCT MV Synthetic benefits include excellent thermal, oxidative and shear stability, outstanding wear protection, strong corrosion protection and reliable low temperature fluidity. It also provides superior anti-shudder durability (ASD) and friction performance when compared to many genuine OEM fluids.

DuraDrive DCT MV Synthetic uses Petro-Canada's 99.9% pure PURITY™ VHVI synthetic base oils. Used in combination with leading edge additive technology this allows DuraDrive DCT MV Synthetic to retain its "fresh oil" properties longer, thereby delivering exceptional performance and savings. DuraDrive DCT MV Synthetic also provides savings through inventory consolidation by offering true multi-vehicle performance.

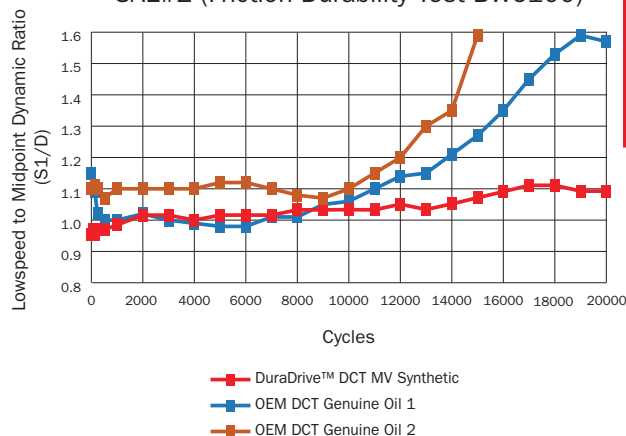
Features and Benefits

- **Excellent anti-shudder durability and high stable friction properties**
 - Improves shift comfort and driveability
 - Maintains transmission efficiency and fuel economy
 - Retains friction properties for longer time
 - Ensures good synchronizer friction performance
 - Provides proper start-up with controlled clutch engagement/disengagement

What is the HT difference?

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.

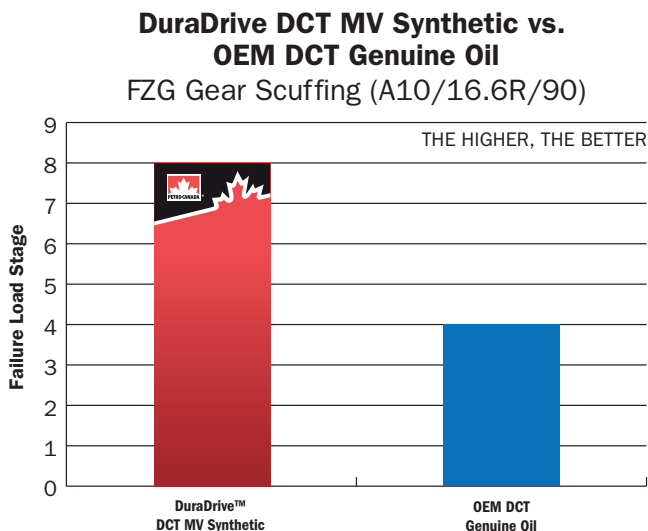
DuraDrive DCT MV Synthetic vs. OEM DCT Genuine Oil SAE#2 (Friction Durability Test BW6100)



DuraDrive™ DCT MV Synthetic has robust anti-shudder and friction durability compared to OEM DCT Genuine Oils.



- **Outstanding protection against wear**
 - Extends transmission life
 - Excellent shear stability to maintain film thickness in high shear conditions of the gear mesh



DuraDrive™ DCT MV Synthetic shows superior protection for gears and bearings when compared to Genuine DCT fluids.

- **Superior foaming control**
 - Strong and long lasting anti-foam performance
 - Ensures proper lubrication of the transmission
 - Avoids cavitation in the hydraulic system

- **Excellent resistance to oxidative and thermal breakdown**
 - Prevents corrosion and the formation of harmful sludge and deposits
 - Keeps transmissions clean & functioning properly
 - Minimizes damage to hydraulic and actuator systems
 - Excellent oxidation resistance and low volatility
- **Reliable low/high temperature fluid performance**
 - Delivers quick lubrication of transmission components in cold weather
 - Maintains desired viscosity & oil film strength in high operating temperatures around clutches
 - Provides adequate cooling for the entire system
- **Compatible with DCT transmission seal materials**
 - Helps to maintain seal integrity and prevents leaks

Applications

DuraDrive DCT MV Synthetic is suitable for use in a wide range of European, Asian, and North American wet dual or double clutch transmissions.

Please consult the Application Charts to view the applications listed where DuraDrive DCT MV Synthetic would be suitable.

DuraDrive™ DCT MV Synthetic (Wet Dual Clutch Transmission Fluid) Applications Table:

Application	Specification/Vehicle SFU claims
Passenger Car - North American OEM	Chrysler BOT 341 (Power shift 6-speed)
	Ford WSS-M2C936-A
Passenger Car - Asian OEM	BYD TL 52182 (G 052 182)
	FAW TL 52182 (G 052 182)
	Mitsubishi MZ320065 DiaQueen SSTF-I
	Nissan (WSS-M2C936-A)
	SAIC TL 52182 (G 052 182)
Passenger Car - European OEM	Audi TL 52182 (G 052 182)
	Audi TL 52529 (G 052 529)
	BMW 83 22 2 148 578
	BMW 83 22 2 148 579
	BMW 83 22 0 440 214
	BMW 83 22 2 147 477
	Citroën 9734.S2
	Mercedes-Benz MB 236.21 (001 989 85 03)
	Peugeot 9734.S2
	Porsche (oil No 999.917.080.00)
	Renault BOT 450 (6-speed)
	Seat TL 52182 (G 052 182)
	Skoda TL 52182 (G 052 182)
	VW TL 52182 (G 052 182)
VW TL 52529 (G 052 529)	
Volvo 1161838, 1161839	

- Suitable For Use (SFU) = Supporting data is available to demonstrate acceptable performance (not OEM approved).
- DuraDrive DCT MV Synthetic is not recommended for manual transmissions, conventional stepped automatic transmissions, continuously variable transmissions (CVT) or e-CVT.

Typical Performance Data

PROPERTY	ASTM TEST METHOD	DuraDrive DCT MV Synthetic
Density, kg/l @ 15°C (60°F)	ASTM D4052	0.855
Colour	Visual	Amber
Flash Point, COC, °C / °F	ASTM D92	165 / 329
Pour Point, °C / °F	ASTM D5950	-51 / -60
Viscosity, cSt @ 40°C / SUS @ 100°F cSt @ 100°C / SUS @ 210°F	ASTM D445	34.5 / 162 6.9 / 49
Viscosity Index	ASTM D2270	168
Brookfield Viscosity cP @ -40°C (-40°F)	ASTM D2983	12440
Product Identification Code		DDMVDCT

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

To order product or to learn more about how Petro-Canada Lubricants can help your business visit: lubricants.petro-canada.com or contact us at: lubecsr@petrocanadalsp.com



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