



TECHNICAL BULLETIN

August 2014

RED IS THE COLOUR!



Automatic Transmission Fluids have a new standard!

Kevin Davies takes us through the Multi Vehicle (MV) fluids that are now available and why you should use them.

THE MV REVOLUTION



TOTAL has used the latest synthetic technologies and expertise to develop and manufacture three multi-vehicle transmission fluids, covering the specifications and requirements for all manufacturers.

Amazingly it only takes three fluids to cover 99.9% of today's vehicle requirements, including features such as:

- enhanced friction durability
- exceptional high temperature protection
- low temperature fluidity
- foaming prevention

All of these features ensure that the fluid will deliver smooth transmission performance, resist fluid oxidation and ensure cold start performance. Problem solved!

THE TECHNICAL BIT....

In the early days of Automatic Transmissions, mainly cellose material with cotton and other soft materials in a phonolic realm binder were used because of the static and dynamic friction characteristics of the clutch plate (friction surface) materials.

Today we use hybrid materials. Hybrid (or composite) materials are typically manufactured using a process similar to that of paper-based materials, but using carbon fibres in a combination with organic or synthetic fibres such as Kevlar and aramid fibres.

Many of the clutch materials are close in static and dynamic through the SAE2 and other friction test machines (JASO M349-98, R-H Friction Apparatus, ZF GK Test Bench, Low Velocity Friction apparatus, etc) to determine if the Friction Modifier set is appropriate.

The velocity verses friction characteristics (U-n) are carefully monitored for each separate transmission and fluid formulation. The appropriate FM additive levels are then determined for the complete additive packages.

WHAT SHOULD YOU USE?

4-5 SPEED AUTOMATICS

Fluidmatic MV is a premium automatic transmission fluid based on an advanced synthetic technology allowing very high performance. This lubricant can be used in a broad range of

automatic transmission standards (Asian, European, American etc). It's particularly suitable for 4 & 5 speeds automatic transmissions.

Allison (C-4 TES-295 TES-389)	Ford Mercon® Mercon® V	JASO 1-A(M-315-2004)	Suzuki ATF Oil
Audi (G 052 025 G 052 162)	Ford model fitted with BTR	Mazda ATF-MIII, ATF-MV	(Suzuki ATF 3314 and 3317)
BMW 7045E LA2634 LT 71141	Honda ATF-Z1	Mitsubishi Diamond (SP-II SP-III)	Toyota T-III T-IV
Chrysler ATFs+3 +4	Hyundai Kia Mitsubishi SP-II SP-III	Nissan Matic-D Matic-J Matic-K	VW G 052 025-A2 G 052 162-A1
Daihatsu Alumimix ATF Multi	Isuzu Besco ATF-II, AFT-III	Subaru ATF	ZF TE ML 11B (LT71141 ZF LifeGuard 5)
GM Dexron® IID IIII IIH			

6 SPEED AUTOMATICS

Fluidmatic MV LV: This lubricant has been developed to meet the needs of modern transmission where higher efficiency is required. It is a low viscosity formulation that meets the more demanding OEM specifications. FLUIDMATIC MV LV is recommended for use in the latest generation of high efficient 6-speed automatic transmissions with longer fluid life capabilities and heavier load capacities

ZF M-1375.4 (6HP)	Aisin Warner AW-1	Toyota T-WS (JWS 3324)	DSI H 6-Speed Transmissions (ATF 3292)
Honda ATF DW-1	GM Dexron®V1	Myundai Kia SP-IV	Hyundai NWS-9638
MB 236.12 & 236.14	Ford Mercon®LV, Mercon SP	Nissan Matic S	JASO 1A
ZF 8-Speed ATs(ZF Lifeguard Fluid 8)	ZF M-1375.4 (6HP)		

CVT AUTOMATICS

Fluidmatic CVT MV: This lubricant is a high performance, continuously variable transmission fluid designed to meet the service fill use in many Asian, North American and European designed vehicles. This Multi-vehicle fluid has been developed to be used in all belt and chain CVTs.

Audi CVT (TL 52180, G052 180 A2)	Fujiyuuko I-CVTRF FG	Mercedes Benz CVT 236.20	Subaru Lineartronic CVT Fluid
BMW CVT (83 22 On136 376, 83 22 0 429154)	GM Saturn DEX-CVT	Mini Cooper CVT (EZL 799, EZL 799A)	Suzuki (TC NS-2 CVT Green 1)
Chrysler CVTF+4	Honda Multimatic Fluid (HMMF)	Mitsubishi CVTF-J1	Toyota CVT Fluid TC
Daihatsu CVT Fluid TC	Hyundai Kia CVT	Mitsubishi Diaqueen CVTF-J1	Volvo CVT 4959
Dodge Jeep CVT (NS-2 CVTF+4)	Nissan CVT (NS-1, NS-2)	Nissan NS-2	VW CVT (TL 521 80, G 052 180 A2)
Ford CVT WSS-M2C-933-A (XT-7QCFT)			
Audi CVT (TL 52180, G052 180 A2)			

If you'd like more information or you have any questions, send Kevin an email [here](#). Thanks and stay tuned for a special offer.

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