

# ***Pennzoi<sup>®</sup> Synthetic Multi-Vehicle ATF Premium,*** ***Synthetic Technology Multi-Vehicle Automatic Transmission Fluid***

## **TECHNICAL DATA SHEET**



Premium performance, synthetic technology fluid designed to meet the needs of multiple vehicle types for service fill in automatic transmission service. PENNZOIL<sup>®</sup> SYNTHETIC MULTI-VEHICLE ATF meets the needs of many Asian and North American designed automatic transmissions.

### **PERFORMANCE, FEATURES & BENEFITS**

- **Friction modified**

Provides consistent, reliable, smooth and trouble free operation of automotive transmission systems.

- **Exceptionally high oxidation resistance**

Resistant to oil degradation and keeps automatic transmissions clean.

- **Excellent shear-stability**

A special 'VI' improver minimises the changes in viscosity with operating temperature.

- **Dependable anti-wear and gear protection**

Long component life

- **Low temperature performance**

Excellent oil fluidity at low temperatures

- **Synthetic base fluids**

Excellent fluid life in the most demanding applications

### **MAIN APPLICATIONS**

- **Passenger car automatic transmissions**
- **Heavy duty automatic transmissions**
- **Power steering units**
- **Hydraulic systems requiring this grade of fluid**

### **SPECIFICATIONS, APPROVALS & RECOMMENDATIONS**

Ford: Mercon<sup>®</sup> V, Mercon<sup>®</sup>

General Motors: Dexron<sup>®</sup> IIIH

JASO: 1-A, 2A-02

Allison: C-4

Aisin: JWS 3309 (all applications)

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Help Desk.

To find the right Pennzoi<sup>®</sup> product for your vehicles and equipment, please consult [www.pennzoi.com](http://www.pennzoi.com) to look up the right motor oil recommendation using our oil selector.

### **TYPICAL PHYSICAL CHARACTERISTICS**

Properties			Method	PENNZOIL <sup>®</sup> SYNTHETIC MULTI-VEHICLE ATF
Kinematic Viscosity	@-40°C	mPa.s	ASTM D2983	12 000
Kinematic Viscosity	@100°C	mm <sup>2</sup> /s	ASTM D445	7.2
Density	@15°C	kg/m <sup>3</sup>	ASTM D1298	850
Flash Point (COC)		°C	ASTM D92	190
Color				Dyed Red

These characteristics are typical of current production. While future production will conform to Pennzoi's<sup>®</sup> specification, variations in these characteristics may occur.

# **Pennzoi<sup>®</sup> Synthetic Multi-Vehicle ATF** *Premium, Synthetic Technology Multi-Vehicle Automatic Transmission Fluid*

## **HEALTH, SAFETY & ENVIRONMENT**

### **Health and Safety**

Pennzoi<sup>®</sup> Synthetic Multi-Vehicle ATF is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet (MSDS), which can be obtained from [www.epc.shell.com](http://www.epc.shell.com)

### **Protect the Environment**

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

## **ADDITIONAL INFORMATION**

### **Advice**

Advice on applications not covered here may be obtained from your Shell Lubricants distributor representative or Shell Technical Help Desk.

**Application Table**

<b>Manufacturer</b>	<b>Fluid Specification</b>		<b>Manufacturer</b>	<b>Fluid Specification</b>
Aisin	JWS 3309		Mercedes-Benz	Pre- 1996
Allison	C-4		Mini	83 2 402 42
Audi	G 055 025-A2		Mitsubishi	Diamond SP-II
Audi	G052 162-A1		Mitsubishi	Diamond SP-III
BMW	LA2634, ETL-7045E		Nissan/Infiniti	Matic-D
BMW	LT71141		Nissan/Infiniti	Matic-J (Note 3)
Fiat	9.55550 AV		Nissan/Infiniti	Matic-K
Ford	MERCON		Porsche	JWS 3309 (Cayenne)
Ford	MERCON V		Saab	JWS 3309 and 5 speed automatics , Transmax J, TIV
Ford	M2C138-CJ		Scion	T-II, T-III, T-IV
Ford	M2C166-H		Subaru	ATF
Ford	M2C202-B		Subaru	ATF-HP
Ford	WSS-M2C924-A (JWS 3309 in Five Hundred and Montego)		Suzuki	Dexron III
Ford	M2C922-A1		Texaco	ETL-7045E, N402
GM	Type A, Suffix A		Toyota	Type T-II
GM/Saturn	9986195 (JWS 3309)		Toyota	Type T-III, and where a Dexron III fluid is allowed
GM	DEXRON		Toyota/Lexus	Type T-IV

# **Pennzoil® Synthetic Multi-Vehicle ATF** *Premium, Synthetic Technology Multi-Vehicle*

## *Automatic Transmission Fluid*

Manufacturer	Fluid Specification		Manufacturer	Fluid Specification
GM	DEXRON-II		Voith	55.6335.32 (G607, G1363) Voith DIWA #013S
GM	DEXRON-IID		Volvo	JWS 3309, 5 Speed Automatics, TE-ML 09/11
GM	DEXRON-III, IIIH		Volvo	Volvo 1273.41 and 97340
Honda/Acura	Premium		Various	ZF TE-ML 14B
Honda/Acura	ATF-Z1		Various	ZF TE-ML 16L
Hyundai	SP-II or SP-III		Various	JWS-3309
Idemitsu	K17		VW	G 055 25-A2, TL-5612, TL-52162
Isuzu	SCS, ATF-II, ATF-III, Genuine		ZF	TE-ML 02F
JASO	JASO 1A		ZF	TE-ML 03D
Kia	SP-II or SP-III		ZF	TE-ML 04D
Kia	ATF Red I-K		ZF	TE-ML 09
MAN	339F Ty V-1, V-2, Z-1, Z-2, Z-3		ZF	TE-ML 11A
Mazda	ATF M-111		ZF	TE-ML 14A/14B/14C
Mazda	ATF MV		ZF	TE-ML 16L
Mercedes Benz	Sheet 236.1, 236.2, 236.5, 236.6, 236.7, 236.9, 236.10		ZF	TE-NL 17C

PENNZOIL® SYNTHETIC MULTI-VEHICLE ATF is suitable in many Kia, pre-2003 VW/Audi, Mazda, Subaru, Suzuki, Isuzu, Hyundai, Daewoo transmissions where a DEXRON®/MERCON®/MERCON® V fluid is allowed.

# ***Pennzoil® Synthetic Multi-Vehicle ATF*** *Premium, Synthetic Technology Multi-Vehicle*

## *Automatic Transmission Fluid*

\*Note: 1) PENNZOIL® SYNTHETIC MULTI-VEHICLE ATF should not be used where Type F fluids are recommended; check application manual if the vehicle is one of the following: Datsun/Nissan pre 1971, Lincoln pre 1978, Ford/Mercury pre 1981, Toyota pre 1983, Volvo pre 1985, Mazda pre 1986, Saab pre 1993

\*Note: 2) PENNZOIL® SYNTHETIC MULTI-VEHICLE ATF should not be used in Continuous Variable Transmissions (CVTs) or Double Clutch Transmissions (DCTs).

\*Note: 3) PENNZOIL® SYNTHETIC MULTI-VEHICLE ATF does not meet the low viscosity requirements of 2006 and later GM vehicles requiring DEXRON®-VI, Ford applications requiring Ford MERCON® LV or Mercon® SP, Shell 1375.4, newer Daimler transmissions (ATF 134FE) and some other manufacturer's 6 and 7 speed transmissions, and other specialty transmissions where a low viscosity ATF is recommended. Where applications allow use of an alternate fluid of a higher viscosity (example Nissan Matic-J when Nissan Matic-S is not available) to one of the above fluid specifications, PENNZOIL® SYNTHETIC MULTI-VEHICLE ATF is an excellent recommendation.

DEXRON is a registered trademark of General Motors Corporation.

MERCON is a registered trademark of Ford Motor Company.