HAVOLINE® AUTOMATIC TRANSMISSION FLUID MD-3
ISOCLEAN® CERTIFIED LUBRICANT

PRODUCT DESCRIPTION

Formulated for applications that call for the former DEXRON®-III H, MERCON®, Caterpillar TO-2 and Allison C-4 fluids.[1]

Chevron ISOCLEAN® Certified Lubricants have been certified to meet specified ISO Cleanliness standards at point of delivery using industry leading filtration and testing technology. ISOCLEAN Certified products are the first step for contamination control and maximizing component life.

CUSTOMER BENEFITS

Havoline® Automatic Transmission Fluid MD-3 ISOCLEAN Certified Lubricant delivers value through:

- **Ready to use** — Enables users to meet stringent original equipment manufacturers' cleanliness standards for fill lubricants.
- **Flexibility** — ISO Cleanliness targets can be customized to fit your business application needs.
- **Peace of mind** — Each delivery of Chevron ISOCLEAN Certified Lubricant includes an ISOCLEAN Certificate of Analysis.
- **OE fluid cleanliness requirements** — Customized to meet specific equipment manufacturers' fluid cleanliness requirements.
- **Protection** against the formation of lacquers, sludge, or other harmful deposits.
- **Exceptional stability** provided by premium base oils and extra oxidation inhibitors.
- **Quiet performance** — Especially effective in minimizing transmission "chatter." Helps ensure smooth, quiet action at all speeds.
- **Fast circulation during cold weather** and excellent film strength when hot.

FEATURES

Havoline Automatic Transmission Fluid MD-3 ISOCLEAN Certified Lubricant is a passenger car and light truck automatic transmission fluid for most pre-2006 automatic transmissions built by General Motors, Ford Motor Company and other makes requiring a high-performance, multi-purpose, power transmission fluid.

It is formulated with premium hydroprocessed base stocks and additives that help provide oxidation and thermal stability, friction control, load-carrying ability, corrosion and wear protection. It helps protect against the formation of deposits, sludge, varnish, and foam.

Havoline Automatic Transmission Fluid MD-3 ISOCLEAN Certified Lubricant helps provide outstanding durability.

Under severe operating conditions, this fluid:

- Maintains friction control for smooth shift action.
- Is specially formulated to help prevent shudder.
- Retains low temperature fluidity and high temperature stability for long operating periods.
- Protects automatic transmission fluid coolers from corrosion.
- Helps minimize the chances of a transmission overhaul due to sludge, corrosion, and wear.

1 DEXRON is a registered trademark of General Motors Corporation.
MERCON is a registered trademark of Ford Motor Company.

Product(s) manufactured in the USA, Colombia and El Salvador.
Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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TTF-90 ISOCLEAN

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APPLICATIONS

Havoline® Automatic Transmission Fluid MD-3 ISOCLEAN® Certified Lubricant is designed for use in most pre-2006 automatic transmissions built by General Motors, Ford Motor Company and other makes requiring a high performance, multi-purpose, power transmission fluid. It is recommended for applications that call for the former DEXRON-III H, MERCON, Caterpillar TO-2, Allison C-4 and the following specifications:

OEM	Specification
Aisin Warner	JWS 3309 (T-IV)
	JWS 3324 (WS)
	AW-1
Allison	C-3
	C-4
	TES-389B
American Motors	ATF+3 (MS-7176E)
Audi/VW	G 052 162-A1/A2 (ZF Life guard fluid 5)
	5HP LT71141
BMW	LA2634
	LT71141
	7045E
	ETL-8072B
	ZF 5HP18FL, 5HP24, 5HP30
Caterpillar	TO-2
Chrysler/Dodge/ Jeep	ATF+
	ATF+2
	ATF+3 (MS-7176E)
	05127382AA
	NAG 1
Ford	MERCON®
	WSS-M2C138-CJ
	WSS-M2C166-H
	ESP-M2C166-H
	XT-2-QDX (M)
	XT-2-QSM (Syn)
	XL-12
General Motors	TASA
	DEXRON®-II
	DEXRON®-IID
	DEXRON®-IIE
	DEXRON®-IIIG
	DEXRON®-IIIH
	GM 1940700
	GM 21005966
Honda	DW-1
Hyundai/Kia	Dex-II
	SP-II
Jaguar	ATF 3403 M115
	LT71141
	JLM20238
	JLM20292
	ZF 5HP24
Mazda	ATF D-II
	ATF M-III
	ATF F-1
Mercedes Benz	ZF 4HP20
Porsche	LT71141
	ATF 3403-M115
	ZF 5HP19FL / 5HP20
Toyota	ATF D-II
	ATF D-III
	ATF WS
Vickers	M2950-S
	I-286-S
Volvo	97325
	97335
	CE 97340
Volkswagen	G 052 162 (ZF Life guard fluid 5)
	G US 000 162
ZF	All 3- and 4-speed transmissions
	TE-ML 05L
	TE-ML 09
	TE-ML 21L

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TYPICAL TEST DATA

	Test Method	
Product Number		*223082*
SDS/MSDS Number *USA* *Canada* *Mexico* *Colombia* *El Salvador*		 *8654* *33097* *38663* *33101* *33701*
API Gravity	ASTM D4052	34.1
Viscosity, Kinematic cSt at 40°C cSt at 100°C	ASTM D445	 34.1 7.0
Viscosity, Brookfield cP at -40°C	ASTM D2983	 14,000
Viscosity Index	ASTM D2270	171
Flash Point, °C(°F)	ASTM D92	185(365)
Pour Point, °C(°F)	ASTM D97	-50(-58)
Color		Red

Minor variations in product typical test data are to be expected in normal manufacturing.

Always check your owner's manual to determine the proper automatic transmission fluid for your vehicle.

Do not use in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

Do not use in breathing air apparatuses or medical equipment.

Consult with your Chevron Lubricant Representative or Chevron ISOCLEAN Certified Lubricants Marketer to set specific ISO Cleanliness targets for your business application.

CONTACT INFORMATION

You can contact Chevron Global Lubricants in the United States in several ways, depending on your question or requirement, please review the following options:

Chevron Headquarters

Chevron Corporation (Corporate Offices)
1400 Smith Street
Houston, TX 77002
United States

General Questions and Feedback

Chevron Information Center: 1-800-533-6571

USA Customer Service: 1-800-526-3013

LUBETEK technical staff: lubetek@chevron.com

To locate the Chevron Lubrication Marketer or agent nearest you, visit www.chevronlubricants.com, select an industry and click on "Marketer Locator" or call 1-800-822-5823.

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