



Multi-Vehicle Global ATF

Full-Synthetic OEM-Grade Automatic Transmission Fluid

US · European · Asian — Cars · Trucks · SUVs

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DESCRIPTION

TRIAX Multi-Vehicle Global ATF is a full-synthetic, OEM-grade automatic transmission fluid engineered for maximum performance in roughly 98% of North American, European, and Asia-Pacific automatic transmissions. Its polymeric additive base delivers the low-viscosity flow of a modern LV fluid with the shear stability and film strength of a high-viscosity ATF, providing exceptional oxidation resistance, wear protection, frictional stability, sludge and deposit control, and anti-shudder performance in today's high-performance transmissions — while also outperforming older-specification fluids in legacy units. Formulated with seal-conditioning elastomers that restore and maintain integrity across all seal materials, including synthetics, it is designed for lifetime service in sealed automatic transmissions of passenger cars, SUVs, and pickup trucks under non-severe-service operation.

PERFORMANCE HIGHLIGHTS

- **Extreme shear resistance** — holds viscosity under high torque, high power output, and heavy loads, with the shear stability of a high-viscosity ATF
- **Exceptional torque transfer and clutch holding** — balanced dynamic and static friction for smooth, positive engagement
- **Anti-shudder control** — Sure Shift performance prevents slipping, notchy shifting, sticking, and shudder for excellent driveability
- **Runs 10–15 °C cooler** in most applications, lowering transmission operating temperature
- **Broad seal compatibility** — conditions and protects both synthetic and natural elastomer seals
- **Unmatched oxidation stability** — prevents sludge and deposit formation and maintains shift quality over the long term
- **Superb rust and corrosion protection** with no foaming across all operating conditions
- **Excellent viscosity stability** for reliable, year-round lubrication
- **Fits ~99% of vehicles** without CVT or DCT transmissions; rated for lifetime fill in sealed units under non-severe service

SPECIFICATIONS & APPLICATIONS

TRIAX Multi-Vehicle Global ATF is designed for most non-CVT, non-DCT automatic transmissions in modern passenger cars, SUVs, pickup trucks, and heavy-duty applications, meeting both high-viscosity (HV) and low-viscosity (LV) requirements. It is recommended for most 5-, 6-, and 8-speed automatics from BMW, Audi, VW, Mercedes-Benz, Jaguar, Kia, Nissan, Toyota, and Jeep/Chrysler, and for applications calling for TES 295, TES 389, Dexron III, Dexron VI, Mercon V, Mercon LV, and Chrysler ATF+4, among many others. It is suitable for Mercedes-Benz 722.0xx–722.5xx transmissions specifying non-synthetic fluids and 722.6xx transmissions specifying synthetic fluids. In heavy-duty service — towing, hauling, and off-road — its high shear stability, anti-wear performance, and film strength make it an ideal choice for pickup trucks.

Not for use in CVT, dual-clutch (DCT), or transmissions requiring an ultra-low-viscosity (ULV) ATF.

TYPICAL PROPERTIES

Parameter (Test Method)	Value
Density @ 15 °C, kg/m ³ (ASTM D4052)	849
Viscosity, Kinematic @ 40 °C, cSt (ASTM D445)	30.2
Viscosity, Kinematic @ 100 °C, cSt (ASTM D445)	7.0
Viscosity Index (ASTM D2270)	206
Brookfield Viscosity @ -40 °C, cP (ASTM D2983)	8,600
Flash Point, °C (°F) (ASTM D92)	210 (410)
Pour Point, °C (°F) (ASTM D97)	-50 (-58)
Color (ASTM D1500)	Red

These are typical values. There may be small differences in actual values which are a normal part of production and do not affect product performance.

COMPLETE OEM SPECIFICATION LIST

TRIAx Multi-Vehicle Global ATF meets or is compatible with the following OEM and industry automatic-transmission fluid specifications. Coverage spans North American, European, and Asia-Pacific manufacturers across passenger-car, SUV, light-truck, and heavy-duty applications.

OEM	Approved / Compatible Specifications
Acura	ATF-Z1
Aisin Warner	AW-1 · AW-2 · JWS 3309 · JWS 3324
Allison	C-3 · C-4 · TES-295 · TES-389
Apollo / IKC	ATF RED 1 · RED 1K
Audi / VW	LT71141 · G 052 025-A2 · G 052 162-A1/A2 · G 052 990-A2 · G 053 025-A2 · G 055 005-A/A1/A2 · G 055 025 A2 · G 055 162-A2 · G 055 540-A2 · G 052 055
Bentley	PY112995PA
BMW (most vehicles built before 2017)	7045E (83 22 0 026 922) · 81 22 9 400 272/275 · 81 22 9 407 858/859 · 83 22 024 359 · 83 22 0 403 248 · 83 22 0 403 249 · 83 22 9 407 765 · 83 22 0 142 516 · 83 22 0 397 114 · 83 22 0 402 413 · 83 22 2 152 426 · 83 22 2 289 720 · 83 22 7 542 290 · 83 22 9 407 807 · ATF 3.0 · ETL-8072B (83 22 9 407 807) · JWS 3309 · LA2634 · LT71141 · M-1375.4 · MINI (83 22 0 402 413) · ZF Lifeguardfluid 6 · ZF Lifeguardfluid 8
Bosch	TE-ML 09
Caterpillar	CAT TO-2
Chrysler / Jeep / Dodge	3403-M115 · MOPAR AS 68 RC (T-IV) · JWS 3309 · PN68218925AA · NAG 2 · Diamond SP-III · 05127382AA · 68043742AA · 68157995AA · NAG 1
Daewoo	LT 71141
Daihatsu	AMMIX ATF D-II · AMMIX ATF D-III SP
Esso	LT 71141
Fiat	T-IV type · JWS 3309
Ford (most trucks built before 2018)	ESP-M2C166H, XL-12 · FNR5 · M2C138CJ · M2C166H · MERCON® LV (FF-WSS-M2C-938A/SF, XT-10 QL) · MERCON® SP** · MERCON® V** · MERCON®*** · WSS M2C 138CJ, 166H · WSS M2C 922A1, 924A (XT-8-QAW), JWS 3309 · XT-2-QDX (M) · XT-2-QSM (Syn) · XT-5-QM (V) · XT-6-QSP or -DSP (SP) · XT-9-QMMF5
Fuso	ATF-A4 · ATF-II · ATF-SPIII
GM	1940700 · 1940767 · 9986195 · 12378515 · 21005966 · 22717466 · 88900925 · 93160393 · GM 9985010 / 9985835 · GM Autotrak II · GM DEXRON®-VI · GM DEXRON®-II · GM DEXRON®-IID · GM DEXRON®-IIE · GM DEXRON®-IIIG · GM DEXRON®-IIIH · GM TASA
GM / GMC / Opel / Saturn	88863400 · 88863401 · AW-1
Honda	ATF-Z1 (except in CVTs) · DW-1 · Type 3.0 and 3.1 · 040000C90SG · Dex-II / SP-II
Hyundai / Kia	NWS 9638 · SP-III · SP-IV · SP-IV M · SP-IV-RR · SPH-IV · JWS 3314
Idemitsu	K17 3100 PL085
Isuzu	08200-9001 · SCS Fluid · ATF-II · ATF-III · ATF-SP
Jaguar	ATF LT71141 · ZF 5HP24 · ATF 3403, JLM20238 · ATF 3403-M115 · Jaguar Fluid 8432 · JLM 20292 · JLM 21044
JASO	M315-2013 1A** · M315-2013 1A-LV · M315-2013 2A**
Kia	ATF Red 1 · ATF SP-II · ATF SP-III · ATF SP-IV · ATF SP-IV M · SP-IV-RR
Land Rover	LR0022460 · LR023288 · TYK500050
Lexus	JWS 3309
MAN Trucks	339 Type D · 339 Type F · 339 V2 · 339 Z1 · 339 Z2 · 339 Z3 · MAN 339 V1
Maserati	231603
Mazda	ATF 3317 · ATF F-1 · ATF FZ · ATF M-III · ATF M-V · ATF N-1 · ATF S-1 · D-II
Mercedes-Benz (MB)	236.1 · 236.11 · 236.12 (LV)** · 236.14 (LV)** · 236.15 (LV)** · 236.16 (LV)** · 236.17 · 236.2 · 236.3 · 236.41 · 236.5 · 236.6 · 236.7 · 236.8 · 236.91 · NAG 1 · ZF 4HP20
Mini Cooper	T-IV
Mitsubishi	Diaqueen ATF-MA1 · Diaqueen ATF PA · Diaqueen AW · Diaqueen J2 · Diaqueen J3 · Diaqueen SK · Diaqueen SP-II · Diaqueen SP-III · Diaqueen SP-IV
Nissan	Matic Fluid C · Matic Fluid D · Matic Fluid J · Matic Fluid K · Matic Fluid S · Matic Fluid W
Opel / GM	9986195 · 88900925 · 19 40 700 · 19 40 767 · 21005966 Transaxle · 22 17466
Peugeot / Citroen	Z 000169756 · ZF 4HP20
Porsche	000 043 205 09 · 000 043 205 28 · 999 917 547 00 (A2) · ATF 3403-M115 · T-IV (JWS 3309) · Z 000169756 · ZF 5HP19FL, ZF 5HP20, LT71141
Renault	DPO/AL4 · Matic D2
Saab	93 160 393 · 93 165 147 · T-IV (JWS 3309)
Samsung	SATF-D
Saturn	T-IV (JWS 3309)
Scion	All vehicles
Shell (OEM ATF)	124 · 3353 · 3403, M115, LA 2634 · L12108 · M-1375.4, M1375.6

OEM	Approved / Compatible Specifications
Ssang Yong	DSIH 5M-66 · ATF
Subaru	ATF 5AT · ATF HP · Dexron®-II · K0140Y0700
Suzuki	AT OIL 5D06 · ATF 2326 · ATF 2384K · ATF 3314 · ATF 3317 · ATF AW-1 · JWS 3309
Texaco	7045-E · 8072B · N402
Toyota	ATF D-II · ATF D-III · ATF T-III · ATF T-IV · ATF Type T · ATF WS
Vickers	M2950-S, I-286-S
Voith	55.6335.xx (G607) · 55.6336.xx (G13636) · Service Bulletin #013 and #118
Volvo	97325 · 97335 · 97342 · CE 97340 · CE 97341 (STD 1273.41) · PN 1161521 · PN 1161540/1161640
VW	5 HP (ZF 5 HP 30) · 5HP (18FL, 30) · 5HP (19FL, 24A) · G US 000 162 · G 052 025-A2 · G 052 055 · G 052 162-A1/A2 (ZF Lifeguardfluid 5) · G 052 990 · G 053 025-A2 · G 055 005-A/A1/A2 (ZF Lifeguardfluid 6) · G 055 025 A2 (JWS 3309) · G 055 162-A2, -A6 (ZF Lifeguardfluid 6+) · G 055 540-A2 · G 060 162 (ZF Lifeguardfluid 8) · G-053 162 A1 (ZF Lifeguardfluid 5) · LT71141 · TL 521 62
ZF	3, 4, & 6 speed transmissions · ZF 5HP24 · TE-ML 02F · TE-ML 03D · TE-ML 04D · TE-ML 05L · TE-ML 09 · TE-ML 09X · TE-ML 11A, 11B · TE-ML 14A · TE-ML 14B · TE-ML 14C · TE-ML 16N · TE-ML 17C · TE-ML 21L · ZF 8 & 9 speed transmissions (Lifeguardfluid 8 and 9)

HIGH-VISCOSITY (HV) SUBSTITUTION FOR LV APPLICATIONS

Using TRIAX Multi-Vehicle Global ATF in LV (low-viscosity) applications: although newer transmissions may specify an LV fluid, a high-viscosity ATF such as TRIAX Global ATF is widely recommended as a substitute, offering higher film strength, better shear stability, longer service life, improved long-term shift stability, anti-shudder performance, and stronger seal and wear protection. These benefits are especially valuable in heavy-duty service such as towing, hauling, and off-road use.

*Specifications marked ** / *** denote fluids for which TRIAX Global ATF is offered as an HV substitute per the note above. All trademarked names are the property of their respective owners; their use is solely to convey application and compatibility.*