



CITGO® QUATRASYN®

Synthetic Transmission Fluid

OVERVIEW



- Fully synthetic, multipurpose heavy duty transmission fluid engineered for severe-duty service and designed for use in a variety of automatic transmission applications.
- A long history of proven performance: field tested in buses and proven for use in refuse vehicles, construction material trucks, trailers, and vehicles operating in stop-and-go conditions.

FEATURES & BENEFITS

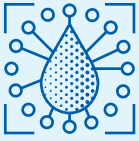


- Unique synthetic formula with high-performance additive technology can extend fluid service life and life of key transmission components, versus conventional fluids.
- Improves maintenance efficiency by extending transmission life, resulting in reduced downtime and lower repair costs.
- Extended drain and filter change intervals result in reduced oil disposal cost; seal conditioners reduce tendency for leakage after extended service.
- Excellent deposit control reduces the tendency of fluid breakdown that leads to clutch plate glazing and results in loss of clutch plate friction control.
- Outstanding performance across a wide temperature range provides year-round capability.
- Excellent thermal and oxidation stability reduce sludge and deposit formation.
- Excellent shear stability and viscosity retention.
- Optimized traction coefficients can increase fuel economy.

APPLICATIONS



- Recommended for use in automatic transmission applications where TES-295 fluid is specified.
- Refer to equipment owner's manual for proper lubricant recommendation and warranty requirements. QuatraSyn is not an Allison-approved fluid.

APPLICATIONS**CITGO QuatraSyn Synthetic Transmission Fluid has OEM Approval for the following:**

- ZF TE-ML 04D; 14B; 20B; and 25B

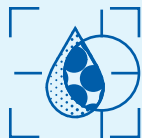
CITGO QuatraSyn Synthetic Transmission Fluid is suitable for use in where the following products are recommended:

- Allison C-4
- Allison TES- 295, TES-468 (Not suitable for use in California.)
- BMW – LT71141; 2634; ETL-7045E; -8027B
- Chrysler – ATF +3
- Ford – M; MV
- GM – III(H)
- HMC/KIA – SP-II; SP-III
- Honda – ATF Z1
- Jaguar – Idemitsu K17
- JASO – Approved 1A, M315-2004
- Land Rover – Texaco N402
- MAN - 339 V1
- MAN - 339 Z2
- Mazda – ATF M-III; ATF M-V
- Mercedes - MB 236.9
- Mercedes - MB 236.5; 6; 7; 10; 11; ATF 3403 M-115
- Nissan – Matik J; Matik K
- Subaru – ATF; ATF HP
- Toyota – T-III; T-IV; JWS 3309
- VOITH – H55.6335.XX (G607)
- VOITH North America Service Bulletins #013 and 018
- VOLVO – 97341
- VW/AUDI – G 052 025 (09M); G 052 990 (09A)
- ZF TE-ML – 04D; 14A; 16L; and 17C

CITGO QuatraSyn Synthetic Transmission Fluid is intended for use in the following universal powershift and automatic transmission applications:

- School Buses and Vans
- Refuse Fleets
- Commercial Trucks and Vehicles
- Motor Homes
- Emergency Vehicles
- On/Off-Highway Vehicles
- Inter/Intracity Buses
- Light Duty Pickup Trucks and Passenger Cars
- Recommended for use in automatic transmission applications where C-4 fluid is specified
- ZF Ecomat transmissions
- Voith DIWA Transmissions

PROPERTIES



Typical Properties for CITGO QuatraSyn Synthetic Transmission Fluid:

Material Code	632493001
Gravity, ASTM D237, °API	35.3
Specific Gravity, D4052	0.848
Density, lb/gal	7.07
Color	Red
Flash Point ASTM D92, °F (°C)	400 (204)
Viscosity ASTM D445	
cSt at 100°C	7.53
cSt at 40°C	35.7
Viscosity Index	185
Brookfield Viscosity ASTM D2983	
cP at -40°C	12,100
cP at -20°C	1,158
Pour Point ASTM D97, °F (°C)	-62 (-52)
Total Acid Number, ASTM D664, mg KOH/gm	1.23
4-Ball Wear, ASTM D4172	
40kg, 1200 rpm, 1 hour,	0.48
Cold Cranking Simulator, ASTM D5293, cP at -30°C	2680

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