Bulldog® mDRIVE™ Transmission Fluid SAE 75W-80
FAQs

Q: What is a Mack® mDrive™ transmission?
A: It is a 12-speed, two-pedal (no clutch pedal) automated manual transmission

Q: What is the difference between a manual transmission and an automated manual transmission?
A: A conventional manual transmission has a clutch pedal and a gear shift that requires the driver to select the appropriate gear. An automated manual has no clutch pedal and employs a computer and an electric motor to choose and engage the proper gear.

Q: Isn’t the Mack mDrive just an automatic transmission?
A: No, it is an automated manual transmission which means it still has a direct mechanical connection with the engine and an internal clutch and NOT a fluid coupling like in an automatic transmission.

Q: Will a heavy-duty ATF (e.g. Allison TES-295) type product work in this transmission?
A: No, the viscosity is too light and it doesn’t provide sufficient gear wear protection.

Q: What is the oil capacity of the Mack mDrive transmission?
A: 16 US Quarts or 15 Liters

Q: What are the benefits of the Mack mDrive transmission?
A:
- These transmissions know the efficiency map for each Mack engine.
- They can instantly predict and select the correct gear for the most efficient operation of the engine.
- Their ease of use contributes to driver retention

Q: Why is a separate, stand-alone transmission fluid needed?
A: As transmission hardware becomes more complex, developing the fluid and the hardware in parallel is the only way to provide optimum performance and component protection and other benefits such as Improved Fuel Efficiency and Extended Drain Intervals

Q: Why a 75W-80?
A: These transmissions were optimized for North American driving conditions. The 75W-80 viscosity grade allows for greater potential increases in Fuel Efficiency while still maintaining component durability.

Q: May I use a 75W-90 instead of the 75W-80?
A: There is no 75W-90 product that meets the 97318 specification in North America.
Q: May I use the common 50 weight synthetic transmission fluids in the Mack mDrive transmission?
A: No, the SAE 50 synthetic transmission fluids do not meet the 97318 specification.

Q: Is there an approved Mobil-branded fluid?
A: None on the Mack aftermarket program at this time.

Q: What other 500K drain products are available?
A: None on the Mack aftermarket program at this time.

Q: Can this product be mixed with a competitor’s product for top off?
A: It can only be mixed with other products that are approved against the 97318 specification or the previous 97307 (short drain) specification. If added to a transmission that was originally filled with an approved 97307 oil, the shorter oil drain interval (250k miles, maximum) must be maintained. Testing for compatibility of this fluid with transmission oils that meet other OEM specifications has not been completed at this time.

Q: What are the benefits of this new product?
A: 75W-80 viscosity grade – Maintains the fuel economy benefits of the Mack mDrive Transmission through reduced viscous churn, smoother gear meshing and easier pumping and filtering
High viscosity index – Allows for outstanding low-temperature fluidity for quicker starts, easy shifts and reduced wear during cold start-ups while providing strong lubricating films at higher temperatures
Exceptional shear stability – Maintains effective viscosity and film strength for better wear protection during severe operation
Excellent load carrying capability – Helps protect against wear under all operating conditions throughout the life of the transmission
Outstanding thermal durability and oxidation resistance – Protects against deposit formation, and contributes to long seal life and extended oil drain and service intervals
Stable, optimized friction properties – Allows for smooth and rapid gear shifting, which can reduce stress on the driveline and tires
Extended drain capability – Approved for up to 500,000-mile oil drain intervals, helping to reduce operating costs (refer to specific vehicle manual for proper drain interval)

Q: What package styles are available?
A: 4X1 Gallons and 5 Gallon Pails – no 55 Gallons Drums or Bulk

Q: What are the new part numbers?
A: Mack mDrive Transmission Fluid SAE 75W-80: 4X1 Gallons – 9853-120551
Mack mDrive Transmission Fluid SAE 75W-80: 5 Gallon Pails – 9853-120550

Q: What is the lead time once I order it?
A: Standard delivery terms from distributor inventory are four days. For first time orders, it could take two weeks.

Q: What are the minimum order quantities?
A: 35 gallons (7 pails or combination with gallon jugs to meet 35 gallons)

Q: May I use this fluid in a competitor’s or other OEM transmission?
A: No – this fluid only meets the 97318 specification required for the Mack mDrive transmission.

Q: What is the cost of this new product?
A: Please refer to the Mack Dealer pricing within COMPASS.