

PENNZOIL® AUTOMATIC TRANSMISSION FLUID A Quality Multi-Functional Fluid For Automatic And Powershift Transmissions



TECHNICAL DATA SHEET

PENNZOIL® DEXRON®-III MERCON® is a new generation petroleum based fluid for automatic and powershift transmissions. It is fully qualified as both a DEXRON®-III and MERCON® lubricant surpassing General Motors specification 6297-M and Ford specification M2C185A. In addition, PENNZOIL® DEXRON®-III MERCON® is an approved Allison C-4 fluid and is qualified as a Caterpillar TO-2 lubricant. To meet the lubrication demands of specialized equipment design, Pennzoil incorporated a "new generation" complex additive system in PENNZOIL® DEXRON®-III MERCON®. Specially selected friction modifiers allow friction retention for long life performance. Enhanced oxidation, thermal stability and corrosion resistance ensure long mileage component protection. In addition, the anti-wear protection of PENNZOIL® DEXRON®-III MERCON® has been improved to exceed the most demanding requirements of hydraulic pump manufacturers.

PERFORMANCE, FEATURES & BENEFITS

- Excellent friction, oxidation and thermal stability
- Outstanding anti-wear performance
- Improved hydrolytic stability
- Better cold temperature flow properties than SAE 10W motor oil
- Protects components from harmful attack by corrosive acids
- Excellent compatibility with seal materials
- Outstanding hydraulic pump performance
- Year-round performance
- Multi-functional fluid - reduces inventory
- Assures long equipment life

MAIN APPLICATIONS

PENNZOIL® DEXRON®-III MERCON® is recommended for mobile equipment used by utility companies which require electrical insulating properties for hydraulic oils. PENNZOIL® DEXRON®-III MERCON® has a dielectric strength of 35kV

PENNZOIL® DEXRON®-III MERCON® provides superior wear protection for all passenger cars and light trucks requiring the use of a Type A or Type A Suffix A, DEXRON®, DEXRON®-II, DEXRON®-IIE, DEXRON®-III or MERCON® Automatic Transmission Fluid -- General Motors, Ford (other than M2C33F or Type F fluids), Chrysler, American Motors, Nissan, Honda, VW, Subaru, Mitsubishi, Isuzu, Toyota, Fiat, Audi, Alfa Romeo, Renault, Porsche and Mercedes Benz.

PENNZOIL® DEXRON®-III MERCON® can be used in passenger cars, trucks and buses, off-highway construction/mining equipment, agricultural equipment, mobile hydraulic systems, industrial machinery, and power steering systems which require DEXRON®, DEXRON®-II, DEXRON®-IIE, or DEXRON®-III fluids.

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SPECIFICATIONS, APPROVALS & RECOMMENDATIONS

PENNZOIL® DEXRON®-III MERCON® is especially formulated to meet the viscosity and frictional requirements of a DEXRON®-III fluid. It is a multi-functional fluid which meets or exceeds the following performance requirements or manufacturers' specifications:

- DEXRON® -III (GM 6297-M)
- MERCON® (Ford M2C185A)
- Allison Type C-4
- Caterpillar TO-2
- Sundstrand Hydrostatic Transmissions

PENNZOIL® DEXRON®-III MERCON® is suitable for use in applications requiring Ford M2C138CJ and Ford Type H fluids.

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

To find the right Pennzoil® product for your vehicles and equipment, please consult www.pennzoil.com to look up the right motor oil recommendation using our oil selector.

TYPICAL PHYSICAL CHARACTERISTICS

| Properties | | | Method | Pzl® Automatic Transmission Fluid |
|-----------------------------------|--------------|---------------|----------------------|-----------------------------------|
| Gravity | | °API | ASTM D287 | 32.5 |
| Specific Gravity | | @60°F(15.6°C) | ASTM D287 | 0.8780 |
| Pounds per Gallon | | | | 7.25 |
| Flash Point | | °C(°F) | ASTM D92 | 204(399) |
| Fire Point | | °C(°F) | ASTM D92 | 224(435) |
| Pour Point | | °C(°F) | ASTM D97 | -57(-71) |
| Color | | | | Red |
| Kinematic Viscosity | @40°C | cSt | ASTM D445 | 34.35 |
| Kinematic Viscosity | @100°C | cSt | ASTM D445 | 7.23 |
| Kinematic Viscosity | @100°F | SUS | ASTM D445 & D2161 | 161.1 |
| Kinematic Viscosity | @210°F | SUS | ASTM D445 & D2161 | 49.9 |
| Viscosity Index | | | ASTM D2270 | 182 |
| Brookfield Viscosity | @-40°C | cP | ASTM D2983 | 17 200 |
| Dielectric Strength | | kV | ASTM D877 | 35 |
| Sundstrand Axial Piston Pump Test | | | Sundstrand Procedure | Excellent Pass |
| Rust Protection | | | ASTM D665A | Pass (No Rust) |
| Hydrolytic Stability Test | | | ASTM D2619 | Excellent Pass |
| Foam Test | | | ASTM D892-74 | No Foam (0-0-0) |
| Copper Strip Corrosion | 3 hrs @100°C | | ASTM D130 | 1b |

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| Properties | | Method | Pzl® Automatic Transmission Fluid |
|------------------------|------|--------|-----------------------------------|
| Material Number | Bulk | | 3310 |

These characteristics are typical of current production. While future production will conform to Pennzoil's® specification, variations in these characteristics may occur.

HEALTH, SAFETY & ENVIRONMENT

Health and Safety

Pzl® Automatic Transmission Fluid 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

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.