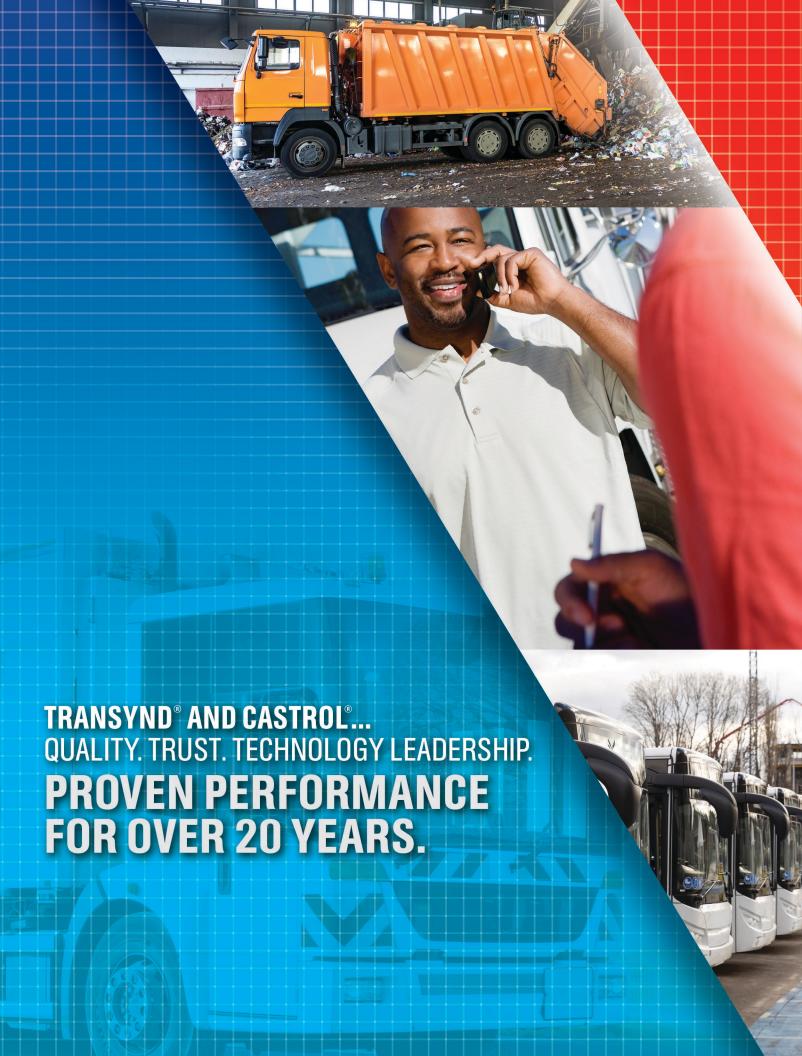


IT'S MORE THAN JUST OIL. IT'S LIQUID ENGINEERING.®





### A HISTORY OF **PROVEN PERFORMANCE**

Over twenty years ago, Allison Transmission® and Castrol® joined forces to create a groundbreaking automatic transmission fluid (ATF) that continues to be a technology and market leader and is used by fleets across the globe. TranSynd® is a full-synthetic, automatic transmission fluid designed specifically

for Allison transmissions. Its unique formulation offers numerous benefits over conventional and non-TES 295° ATFs, including extended drain intervals, enhanced transmission performance, lower operating expenses, and optimum transmission protection.

### THE TRADITION CONTINUES WITH





Transmission Fluid

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1 U.S. Gallon 3.785 Liters

Transmissions

1 U.S. Gallon 3.785 Liters

Engineered for Allison Transmission® by Castrol®



### Allison TranSynd® TES 295®/TES 468™ full-synthetic fluid

Engineered for Allison Transmission by Castrol, the technology and market leader for over 20 years

# NEW Castrol® TranSynd® 668 TES 668™ full-synthetic fluid

Builds on the outstanding performance of the original TranSynd formula with enhancements that include improved wear protection, extended anti-shudder durability, and extended clutch-friction durability

### **CASTROL® TRANSYND® 668** FEATURES AND BENEFITS

#### **DELIVERS...**

- improved gear protection, extended anti-shudder durability and extended clutch-friction durability
- superior high-low temperature performance due to full-synthetic base fluids

#### **PROVIDES EXCELLENT...**

- shear stability that helps maintain a stable viscosity which provides wear protection in gears throughout the drain interval
- thermal and oxidation stability resulting in lower deposit formation
- corrosion and foaming resistance

### **ALLOWS FOR...**

- extended drain intervals of up to 300,000 miles/48 months in general-duty transmissions and up to 150,000 miles/ 48 months in severe-duty transmissions
- 12 times longer drain intervals than conventional and other non-TES 668™ and non-TES 295® fluids

# ADD PROFIT TO YOUR BOTTOM LINE WITH **EXTENDED DRAINS**

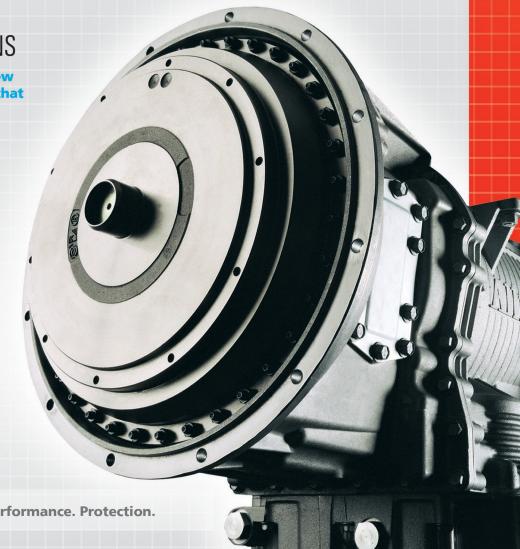
The ability to extend service intervals without compromising the wear protection of the component is an excellent way to add dollars directly to your bottom line. **Castrol® TranSynd® 668 can deliver up to 12 times longer drain intervals** than conventional and other non-TES 668™ and non-TES 295® fluids – making it a true powerhouse when it comes to extending drains. As a result, you can help your company to reduce costs in the following areas: inventory, labor, used-oil disposal, and, importantly, equipment downtime.



# **TES 668**™ SPECIFICATIONS

Allison Transmission° features a new on-highway TES 668 specification that covers its 1000, 2000, 3000, and 4000 Series™ transmissions

- TES 668 builds on the **demonstrated performance** of the previous TES 295 spec in key areas such as oxidative stability, anti-wear performance, and friction durability
- TES 668 spec differentiators include improved wear protection, extended anti-shudder durability, and extended clutch-friction durability
- The TES 668 spec is fully backwards compatible for TES 295 applications
- The TES 668 spec is NOT backwards compatible for TES 468™ applications



Castrol TranSynd 668. Durability. Performance. Protection.

### TRUST THE PERFORMANCE OF CASTROL® TRANSYND® 668

### **IMPROVED GEAR PROTECTION**

- Resists higher loads for longer transmission life
- Ensures excellent hardware protection





Castrol TranSynd 668 no wear marks

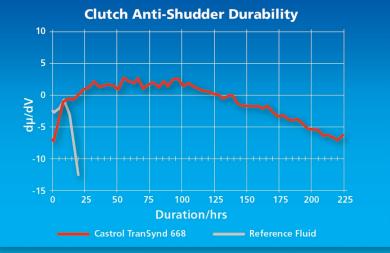




Reference fluid: TES 295\*- certified fluid

### **EXTENDED ANTI-SHUDDER DURABILITY**

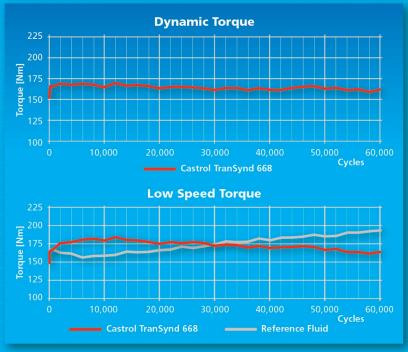
- Up to 10 times higher durability
- Improved shift comfort
- Reduced risk of noise vibration and



Test method: SAE #2 ASD dµ/dV Reference fluid: TES 295°-certified fluid

#### **EXTENDED CLUTCH-FRICTION DURABILITY**

- Stable friction over full duration to ensure constant clutch shift times for preventing heat generation and friction material damage
- Smooth clutch engagement via **improved friction stability** at low speed for excellent torque capacity
- Excellent stability of the friction levels to enable consistent gear changes



### OTHER PRODUCTS IN THE TRANSYND® PORTFOLIO

#### **ALLISON TES 295° SPECIFICATION**

The original TranSynd fluid and BP Autran<sup>o</sup> Syn 295 were engineered for Allison Transmission<sup>o</sup> by Castrol<sup>o</sup> and will continue to be available after the TES 668<sup>™</sup> launch.

TES 295-approved fluids allow for extended drain intervals and offer thermal and viscosity advantages over conventional and other non-TES 295 synthetic automatic transmission fluids. Benefits of TES 295-approved fluids include:

- Extended drain intervals
- Enhanced transmission performance
- Lower operating expenses
- Optimum transmission protection
- Factory warranty backed by Allison

#### **ALLISON TES 468™ SPECIFICATION**

Allison specification required for use in its H 40 EP and H 50 EP hybrid transmissions, which are most common in the mass-transit segment.

- TranSynd TES 295/TES 468 will continue to be the first-fill fluid for Allison hybrid transmissions
- TES 668 fluid is **NOT** backwards compatible for applications requiring a TES 468 fluid, so TranSynd TES 295 (includes TES 468 spec) and BP Autran Syn 295 (includes TES 468 spec) will continue to be available for customers with Allison hybrid transmissions

### **ALLISON TES 353™ SPECIFICATION**

TranSynd® RD with the TES 353 spec is an automatic transmission fluid formulated for "Rigorous Duty" in Allison 5,000, 6,000, 8,000, and 9,000 Off-Highway Series™ transmissions most common in the construction and aggregate segments.

Benefits of TES 353-approved fluids:

- Synthetic fluid for universal powershift and ATF applications
- Allows for extended drain and filter-change intervals
- Provides excellent wear protection
- Provides excellent shear stability and high/low temperature performance

