



TranSynd[®] **668**

Engineered for **Allison Transmission[®]** by Castrol[®]



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 other non-Allison-approved synthetic ATFs, including extended drain intervals, enhanced transmission performance, lower operating expenses, and optimum transmission protection.

THE TRADITION CONTINUES WITH



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**

Engineered for
Allison Transmission®
by Castrol®



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-Allison-approved synthetic 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-Allison-approved synthetic 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.

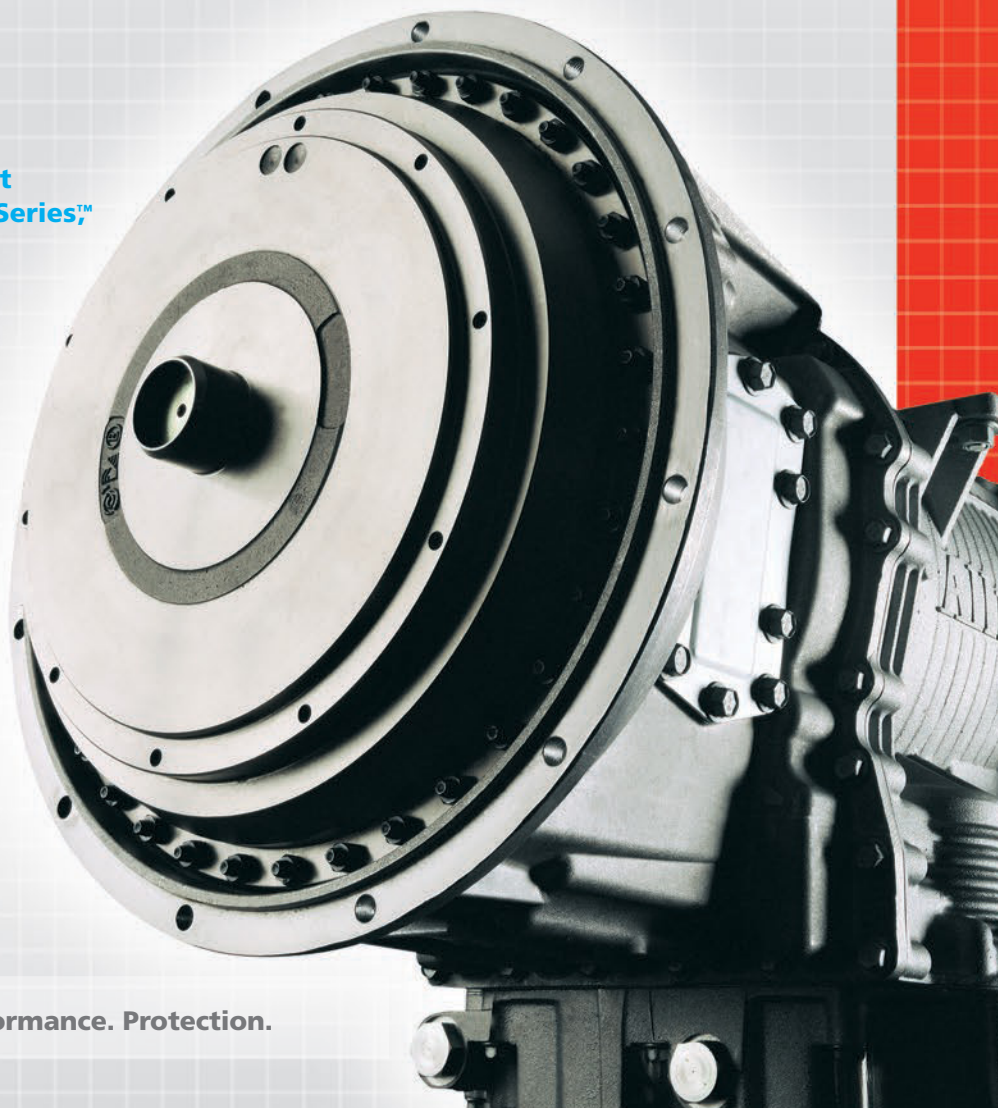


TES 668™ SPECIFICATIONS

Allison Transmission® features a new on-highway TES 668 specification that covers its 1000, 2000, 3000 and 4000 Series™, as well as H 40/50 EP™ 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 both TES 295® and TES 468™ applications*

* TES 668 is not approved for TC10

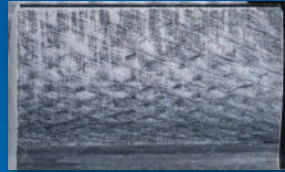


Castrol TranSynd 668. Durability. Performance. Protection.

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
- wear marks -

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**

EXTENDED ANTI-SHUDDER DURABILITY

- Up to **10 times higher durability**
- Improved **shift comfort**
- **Reduced risk of noise vibration** and harshness over full drain period





**TRANSYND® AND CASTROL®...
QUALITY. TRUST. TECHNOLOGY LEADERSHIP.
PROVEN PERFORMANCE
FOR OVER 20 YEARS.**



OTHER ALLISON® SPECS AND OTHER PRODUCTS IN THE **TRANSYND®** PORTFOLIO

ALLISON TES 295® SPECIFICATION

The original Allison® TranSynd® and BP Autran® Syn 295 were engineered for Allison Transmission® by Castrol.® TES 668™ spec fluids are fully backwards compatible for TES 295 applications.*

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

- 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 40/50 EP™ hybrid transmissions, which are most common in the mass-transit segment.

- TES 668 spec fluids are **fully backwards compatible** for TES 468 applications*

ALLISON TES 353™ SPECIFICATION

TranSynd® RD with the TES 353 spec is an automatic transmission fluid formulated for “Rigorous Duty” in Allison 5000, 6000, 8000, and 9000 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

* TES 668 is not approved for TC10