



LE PRODUCTS  
MANUFACTURED  
UNDER AN ISO  
9001:2000  
CERTIFIED QUALITY  
SYSTEM

# 1150 TRANS-ALL EHP AUTOMATIC TRANSMISSION FLUID

***A versatile Extra High Performance automatic transmission fluid for use in Allison transmissions, which require the use of TranSynd™ TES-295 type fluids. General Motors and Ford, where Dexron III, Mercon and Mercon V are required, also approve the use of LE's 1150 TRANS-ALL EHP.***

LE's 1150 TRANS-ALL EHP Automatic Transmission Fluid is engineered to provide enhanced lubricant performance by using the most advanced additives on the market, blended into the highest quality synthetic and paraffinic base oils available. LE's proprietary manufacturing process allows 1150 to be treated with the highest possible additive levels, providing longer effective fluid life and unmatched protection against wear.

LE's 1150 has written approval for GM Dexron® IIIH, Ford Mercon® and Mercon V, and Allison C-4 Automatic Transmission applications. Also suitable for use in Chrysler ATF +3 and ATF +4 applications. Can be used in commercial applications where Allison TES-295 Fluid is specified.

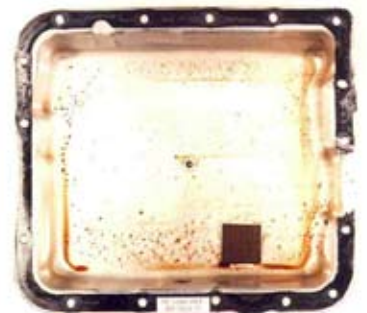
**Use of LE's 1150 TRANS-ALL EHP ATF results in smoother shifting, reduced wear on transmission parts, longer effective fluid life and a significant decrease in maintenance costs.**

## USER BENEFITS

- **Superior Lubrication**, protection of moving parts against wear and premature failure.
- **High Oxidation Resistance**, which prevents thickening and the formation of sludge and varnish deposits.
- **Protection From Rust and Corrosion**, which result from condensation and acid formation.
- **Protection Against Wear**, because effective lubricating qualities are retained over a long period of time.
- **Non-Foaming**, assuring smooth transmission of power and eliminating fluid loss through the fill pipe.
- **Rapid Heat Transfer**, to cool and protect metal parts.
- **Preservation of Seals**, extending seal life and preventing fluid loss.
- **Excellent Low Temperature Fluidity**, insuring faster starts and more efficient operation in cold climates.



To further illustrate the oxidation resistance performance of LE's 1150 TRANS-ALL EHP ATF, here are photographs of two transmission pans from transmissions run in actual qualifying tests. The transmission pan at right illustrates the sludging that is typical of Dexron commercial grade products. The photograph at left illustrates the minimal sludge from LE's 1150 TRANS-ALL EHP ATF.

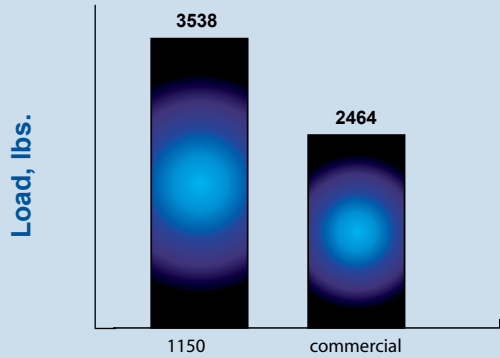


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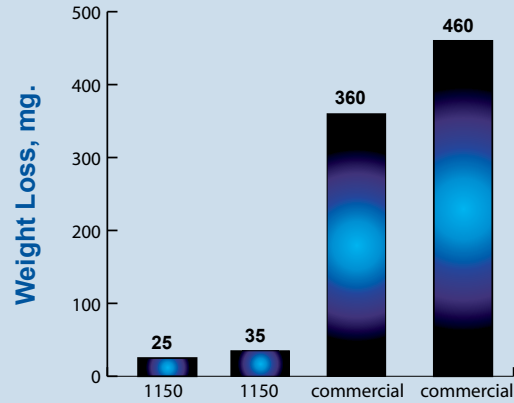


### Load Carrying Protection



LE's 1150 TRANS-ALL EHP ATF carries 43.5% more load than commercial grade ATF in the FZG test.

### FZG Low Speed Test



In this test spur gears are run for 20 hours at the 10th load stage with an oil temperature of 250°F (121°C). At the end of the test the total gear weight loss is recorded. In duplicate runs, LE's 1150 TRANS-ALL EHP ATF had significantly less wear than the commercial grade ATF.

### PHYSICAL CHARACTERISTICS—TYPICAL:

Gravity, °API	34.2
Viscosity	
cSt @ 212°F (100°C)	7.6
cP @ -4°F (-20°C)	1,300
cP @ -40°F (-40°C)	10,500
Viscosity Index	200
Pour Point, °F (°C)	-53 (-48)
Flash Point, °F (°C)	379 (193)
Color	Red
DEXRON® III Qualification Number	H36309
MERCON® Qualification Number	M040401
MERCON V Qualification Number	M5040401
Allison C-4 Approved	C4-30152004
ZF	TE-ML 02F, 03D, 04D, 14B, 16L, 17C



### TEST RESULTS—TYPICAL:

Four Ball Wear, mm, ASTM D-4172	
1200 rpm, 40 kg	0.38
Oxidation Test, minutes, ASTM D-2272	1116

### APPLICATION:

Recommended for heavy-duty automotive truck and construction equipment where MERCON, MERCON V, DEXRON II, DEXRON III or Allison C-4 fluid is specified. May be substituted without question for Type A (Suffix A) or C-3 fluids. Meets all specifications for Caterpillar TO-2, ZF TE-ML.14B, Voith G607 and G1363 (extended drain), and Denison HF-0. USDA H2. Especially applicable where drain periods may be longer than normal due to equipment being away from home terminal.

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