



## Technical Service Bulletin

Date: 04/28/2004

Product Description: AMSOIL CTL

Subject: Roadranger - Eaton Fuller Oil Cooler Failure

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### DESCRIPTION:

Roadranger has issued an information bulletin TMIB-0124 for all Eaton Fuller Heavy Duty Transmissions that have Eaton installed transmission Oil Coolers. The transmission oil coolers are failing which causes coolant to enter the transmissions. TMIB-0124 addresses the corrective action to be taken in the case of transmission contamination, and identifies affected internal components.

### RECOMMENDATIONS

AMSOIL recommends the use of CTL in Eaton Fuller Heavy Duty Transmissions. If transmission oil cooler failure occurs and flushing is needed, use AMSOIL ATF and follow the TMIB-0124 required flushing procedures.

### ATTACHMENT

TMIB-0124

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Submitted By: KD

Approved By: DRA

Approval Date: 07/27/2004

Distribution:  Internal  All

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### Bulletin Type: Service

TMIB-0124

## Topic: Oil Cooler Failure Causing Lube Contamination

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### Issue/Background:

When it is deemed necessary to flush the transmission due to conditions that have contaminated the lubricant or other components internal to the transmission or engine it is important to follow the flushing procedure in this bulletin. In order to remove the contamination and insure there is no damage to any of the internal components the following steps must be adhered to.

### Correction/Action:

Note: This flush procedure shall be performed on Transmissions that exhibit sludge like contamination i.e. (Milky residue). Transmission replacement is recommended on Transmissions that exhibit tar build up i.e. (Black thick sticky grease like residue). [If engine flush is required refer to the appropriate engine OEM for flushing procedures.](#)

1. The transmission should be thoroughly drained of contaminated lubricant.
  2. Remove the 8-bolt P.T.O. cover and inspect the gearing for damage i.e. (scoring, pitting or heat related damage). If damage is present contact Eaton Corporation for repair advice before continuing 800-826-4357. If there is no damage to the gearing reinstall the cover and continue to the next step.
  3. Disconnect the drive shaft at the output yoke of the transmission. This is to insure the vehicle cannot be driven.
  4. Block the vehicle tires **and set air brakes** to insure the vehicle does not move.
  5. Fill the transmission with **Dexron** automatic transmission fluid. (Dexron ATF is the only authorized lube for this flush procedure. Dexron is a proven lube that Eaton Corporation has used in the past and shows excellent wear and detergent characteristics).
  6. Place transmission in the appropriate gear per reference table below. On Autoshift Transmissions place the transmission in hold mode. Using the up shift buttons place the transmission in the appropriate gear on the dash display.
    - **10 speed models should be placed in 5th gear**
    - **13 speed models should be placed in 4th gear**
    - **18 speed models should be placed in 9th gear**
  7. Operate the engine at 1800 RPM's for 30 minutes or until the transmission reaches normal operating temperature, which ever occurs first.
  8. Remove the transmission drain plug and allow the transmission to drain thoroughly.
  9. Remove the 8- bolt P.T.O. cover and clean. Inspect to ensure all contamination (sludge) has been flushed from transmission. Install new gasket and replace.
- Note:** if contamination is still present contact Eaton Corporation for advice concerning the repair 1-800-826-4357
10. Fill transmission with appropriate transmission lube.
  11. Autoshift Transmissions that have an Eaton Oil Cooler that has failed shall have the X-YShifter replaced with new after completion of flush procedure
  12. [If engine needs flush refer to engine OEM for service procedure.](#)

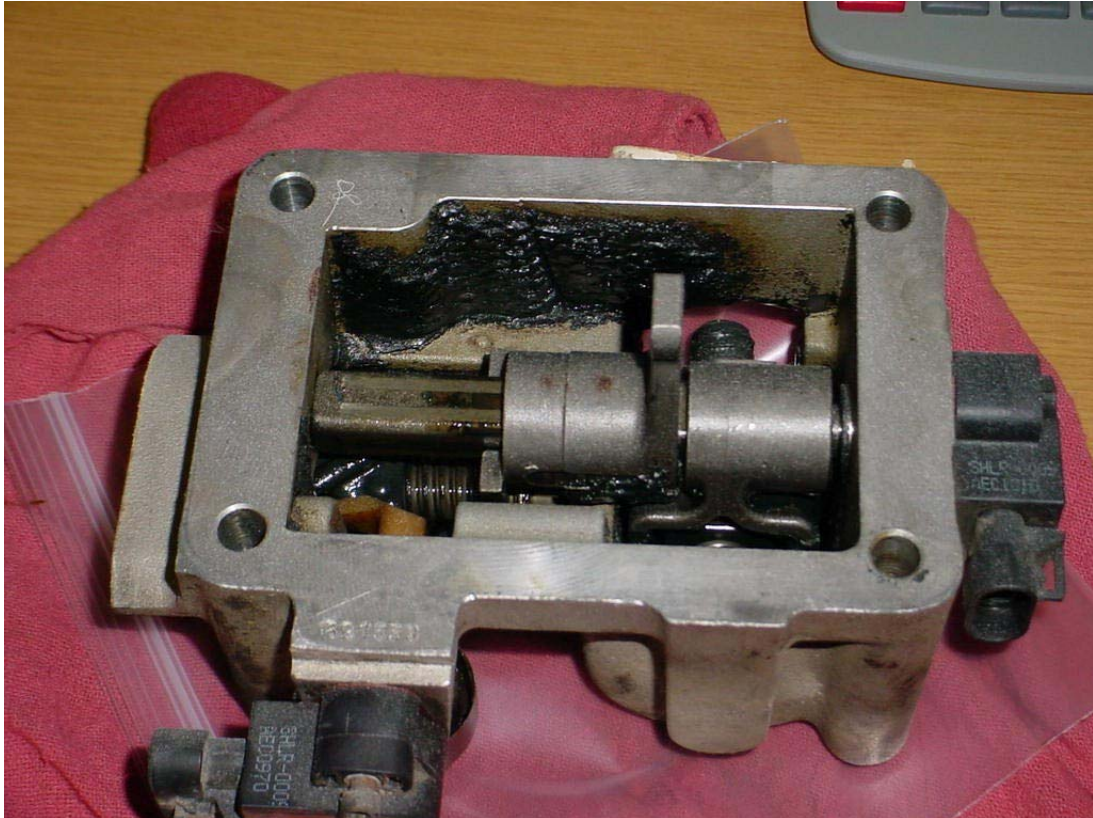
**Affected Population:**

All Eaton Fuller Heavy Duty Transmissions with Eaton installed Oil Coolers.

**Warranty Strategy:**

The following Warranty Guidelines will apply.

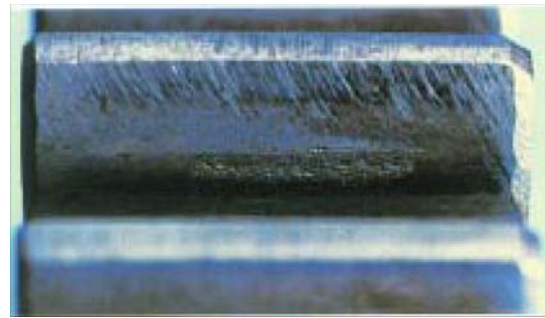
- 1.5 hours for Transmission flush procedure (this includes the 30-minute transmission run time).
- 1.5 hours for remove and replace of the X-Y Shifter (AutoShift transmission only).
- Will allow a \$1.20 per quart for Dexron Automatic Transmission Fluid.
- 1.0 hour for engine flush per engine OEM guidelines.



**X-Y Shifter with sludge build up**  
(Recommend X-Y replacement)



**Transmission with tar build up**  
(Recommendation Transmission replacement)

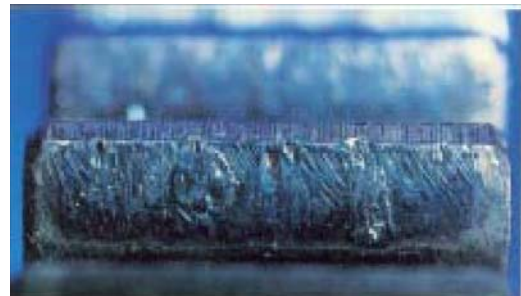


**Initial pitting**

Initial pitting may be considered normal gear wear. For assistance in identifying acceptable gear pitting please contact the RoadRanger Call Center at 1-800-826-4357



**Heat Damage (burnt)**  
Replace Gear set



**Scoring**  
Replace Gear Set

**For assistance call the RoadRanger Call Center at 1-800-826-4357**