

Technical Service Information



TSI-04-13-05

Date: September, 2004

Subject File: TRANSMISSION

Subject: Loose Output Nuts on Low Mileage Eaton Fuller Heavy Duty Transmissions Built Between June 1, 2003 and April 1, 2004

Model: 4400, 5500i, 5600i, 5900i, 7400, 7500, 7600, 8500, 8600, 9200i, 9400i, 9900i
Start Date: 06/01/2003 End Date: 04/01/2004

DESCRIPTION

Notice

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Service Bulletin: TMIB-0144

Date: June 29, 2004

Bulletin Type: Service

Topic: Loose Output Nuts on Low Mileage Transmissions

Issue Description:

Recent findings of loose output nuts on some heavy-duty transmissions with low mileage or during PDI. Complaints may include driveline vibration, leaking output seal and erratic speed signal possibly causing a speed sensor fault.

The output nut missed a required process, which applies a phosphate coating to allow lubrication between the flange face of the nut and the output yoke during the tightening process. Friction between the nut and output yoke may give a false reading of torque when tightening the output yoke nut.

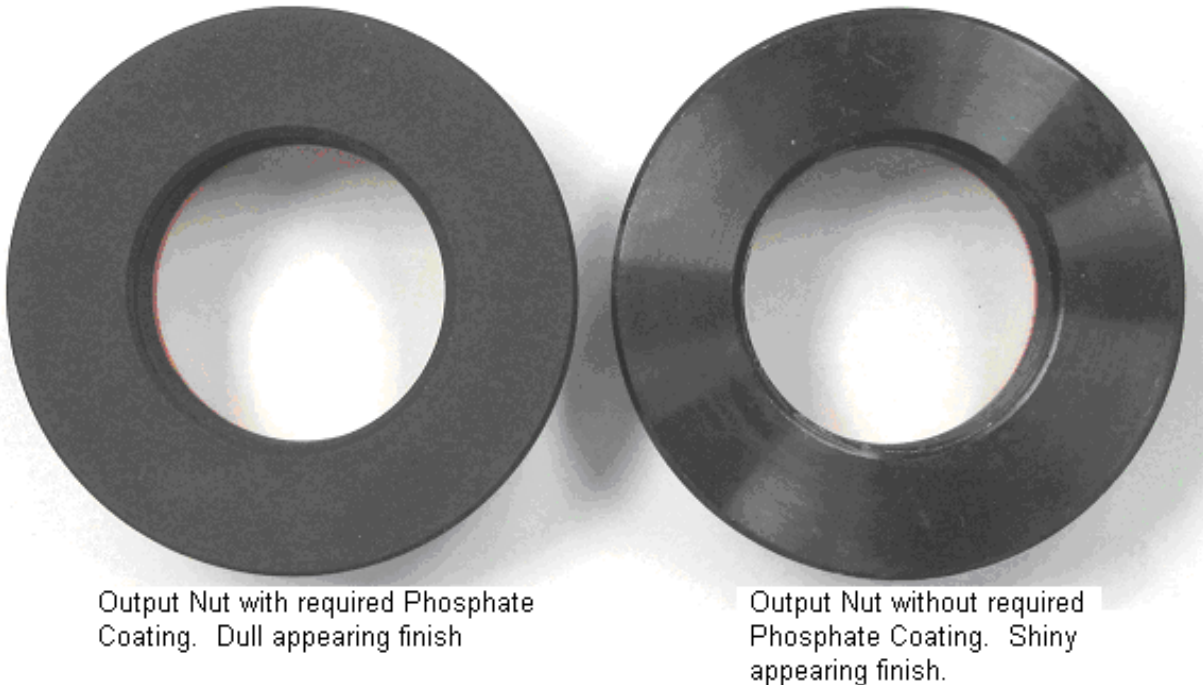
Containment/Corrective Action:

When installing an output nut that is suspect of not having the phosphate coating a small amount of oil or grease should be applied to the flange face of the output nut before installing. If unsure which output nut you have grease should be applied to ensure proper tightening

Affected Models/Population:

All Heavy Duty transmissions built June 2003 thru April 2004

Output Nut with vs. without phosphate coating



Output Nut with required Phosphate Coating. Dull appearing finish

Output Nut without required Phosphate Coating. Shiny appearing finish.

Field/Warranty Strategy: The following steps should be followed if a loose output nut is diagnosed.

1. Remove output nut
2. Inspect threads on output shaft for damage. (If damage is present replace auxiliary output shaft. Follow repair procedures for R&R and disassembly/assembly of auxiliary section).
3. Apply grease to flange face and threads of a new output nut.
4. Tighten output nut to 500 lb ft.
5. To ensure output yoke is tight attempt to spin speedo rotor.

The material contained in this bulletin is product improvement information. Eaton Corporation is not committed to, or liable for, canvassing existing transmissions. FSUD: 2004-MT-4167