

# PARTS & SERVICE NEWS

REF NO. AA01016A

DATE October 1, 2003

(C)

Page 1 of 1

*This Parts & Service News supersedes the previous issuance, AA01016, dated January 15, 2001. AA01016 should be discarded.*

**SUBJECT:** INSPECTION OF SUN PINION GEARS

**PURPOSE:** To inform the field of a 3000 hour sun pinion gear inspection.

**APPLICATION:** Komatsu Mechanical Drive Dump Trucks:  
530M: A30001 thru A30038, 32628;  
HD1500-5: A30039 thru A30047

**FAILURE CODE:** 270133

**DESCRIPTION:** Explanation of sun pinion gear inspection and wear concerns.

A visual inspection of each planetary sun pinion gear is recommended to be performed after the first 3000 hours of use. This inspection must be performed in order to determine if either of the following wear patterns exist:

1. A wear pattern that extends less than 90% of the face width or is off center. See Item 1, Figure 1.
2. A line of hard contact near the root of the tooth with evidence of pitting or brinelling. See Item 2, Figure 1.

Gear part numbers 562-22-12420 and 562-22-12421 may have a tooth profile that could develop this undesirable wear pattern. A shortened life span and possible tooth breakage may result. The sun gear part number is normally stamped on the end of the gear. Other marks may be present.

If these wear patterns appear on the teeth of the sun pinion gear, it is recommended that the gear be replaced with sun pinion gear 562-22-12422. The mating planet gears and the internal ring gears from the planetary assemblies should also be inspected for unusual wear.

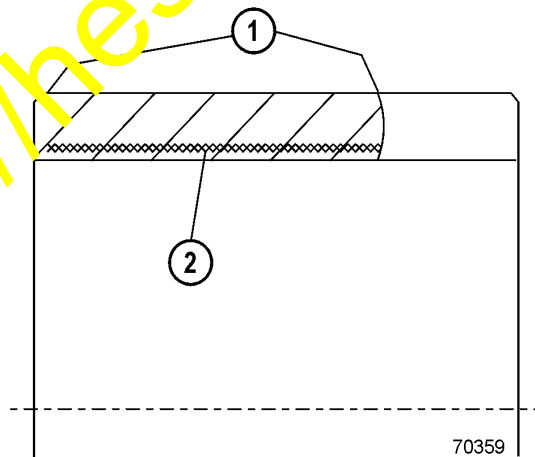


FIGURE 1. TOOTH PATTERNS

1. Wear Pattern extends less than 90% of gear tooth width.
2. Pitting or brinelling near the base of the tooth.