

PARTS & SERVICE NEWS

REF NO. AA98095A

DATE July 8, 1999

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This Parts & Service News supercedes AA98095 dated November 16, 1998 and should be discarded.

SUBJECT: N14 Cylinder Head Improvement

PURPOSE: To provide information on new cylinder heads for the N14 engines

APPLICATION: WA500-1 Wheel Loader, S/N A61000 and up
WA500-3 Wheel Loader, S/N A70001 and up
TD25G Crawler Loader, S/N P72147, P72148, P72157, P72172 and up

FAILURE CODE: A1L115

DESCRIPTION:

Introduction:

To address injection sleeve leaks on N14 engines, Komatsu began producing N14 engines with a new cylinder head. The cylinder heads have been modified as to where the injector sleeve outer diameter contacts the head in the injector bore. This change in contact location will prevent future injection sleeve leaks. The new cylinder head was introduced into production on December 10, 1997, with engine S/N 11873443. New cylinder heads were introduced in remanufacturing on January 5, 1998.

The following is the new part number for the cylinder head:

PREVIOUS PART NUMBER

1307 413 H92

NEW PART NUMBER

1307 413 H93

Cylinder heads in the field can be identified by a stamping and casting identifier on the cylinder heads. Use the identifiers to identify accurately whether a remanufactured or production cylinder head has an increased gap cut and step height.

- ! **Steel-stamped identifier** (historically "CHS" for Charleston). This stamp is located on the top deck of the cylinder head, centered on the cast surface 1" inboard from the exhaust port side of the head. To view this mark, the rocker box **must** be removed.
- ! **Cast identifier "S"** (designates "swirl" heads). This identifier is located on the top deck of the head, but on the case surface in the rear exhaust port corner of the head. This mark can be seen with the rocker box still on the engine.
- ! **Remanufactured stamp identifier** ("G" or "GAP"). This stamp identifier is

located on the head's top case surface and is **only** visible with the rocker housing removed.

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Production Cylinder Head	Date of Production	Steel Stamp	Cast Identifier	ReCon® Stamp
Baseline	Pre - June 20, 1997	CHS	S	
Increased gap height 0.4" height	June 20, through December 10, 1997	CHG	S	
Increased gap height 0.470" height	Post - December 10, 1997	CHS	S and G	
Remanufactured increased gap	Post - January 15, 1998	CHS	S	G or GAP

NOTE: This is a product improvement and is **not** subject to campaign

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