

PARTS & SERVICE NEWS

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(C)

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SUBJECT: IMPROVED CAMSHAFTS AND CAMSHAFT FOLLOWER ASSEMBLIES

PURPOSE: To announce new camshafts and camshaft follower assemblies that have been released for the N14 STC engine.

APPLICATION: WA500-1LE Wheel Loader Serial Number A61001 and UP
 WA500-3LE Wheel Loader Serial Number A70001 and UP
 TD25G Crawler Tractor Serial Number P072038 and UP

FAILURE CODE: A40133

DESCRIPTION:

Introduction:

This PARTS AND SERVICE NEWS announces improvements which have been made to the N14 engine valve drive train to achieve greater durability. The improved camshaft design, along with the new cam follower roller pins and complex crown rollers design, have been introduced into production and service.

The injector lobes on the new camshaft (Item 1) and injector follower rollers in the new cam box assemblies (Item 2) have a non micro-finished surface. Non micro-finished injector lobes and cam follower rollers have proven to be more durable than micro-finished lobes and rollers. Production changed to these non micro-finished components starting on April 28, 1999 with engine serial number 11948647.

NOTE: To achieve the durability improvement, non micro-finished camshafts must be used with non micro-finished cam roller followers. Using only one of these new non micro-finished components will not yield a durability improvement.

A new 0.75 in. diameter cam follower roller pin (Item 3) has been introduced to replace the previous 0.90 in. diameter pin. The smaller diameter pin reduces the torque between the cam follower roller and pin as the engine starts. This new pin went into production on October 14, 1998 with engine serial number 11947861.

A new complex crown roller (Item 4) replaces the old simple crown roller. It provides better load distribution across the width of the injector cam lobe. The complex roller can be identified by a machined groove its side whereas the simple roller has an arrow on its side. This improvement also affects the cam follower lever (Item 5) and cam follower housing (Item 6) assemblies. The new roller and assemblies went into production on December 15, 1997 with engine serial number 11874106.

PARTS LIST

Item	New Part Number	Old Part Number	Description
1	1313 220 H91	1307 426 H1	Camshaft (Service Kit)
2	1313 107 H92	1313 107 H91	Cam Follower Housing Assembly
3	1313 110 H1	1307 264 H2	Cam Follower Roller Pin
4	1304 966 H2	1304 966 H1	Cam Follower Roller
5	1313 111 H92	1313 111 H91	Cam Follower Lever Assembly
6	1307 608 H92	1307 608 H91	Cam Follower Housing

- The cam follower:

