

## Service Alert CSP 06-16

### ISX15 Single Lobe Camshaft

**Attention:**

**Copy:**

**Product Affected:** ISX CM2250SN

**Release Date:** 11 April 2016

**Description:**

The purpose of this Service Alert is to ensure all Cummins South Pacific Branches and Dealer repair locations are aware of the inspection procedure and reuse guidelines for Single Lobe Camshaft on ISX15 product.

When an ISX Single Camshaft engine is inspected, the Service Bulletin 3666052 - 'Camshaft Reuse Guidelines for Cummins® Engines with Roller Followers or Roller Tappets', must be followed. This Service Bulletin is also used for dual camshaft ISX engines.

In the event where the camshaft is found to have excessive wear as outlined in the service bulletin 3666052, the valve lash must be measured and recorded before replacing and a TSR needs to be submitted for the parts to be returned to Cummins South Pacific Service Engineering.

**Cause:**

Single lobe camshaft failures typically occur due to excess friction at the roller to pin interface due to but not limited to insufficient running clearance, poor oil quality and/or excessive wear. This creates relative motion (skidding/slipping) between the roller and the cam lobe resulting in galling and spalling damage.

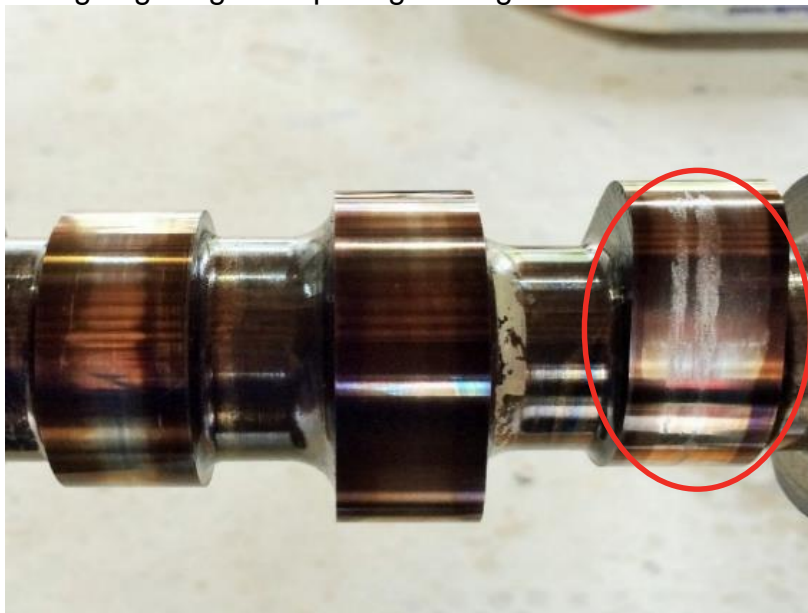
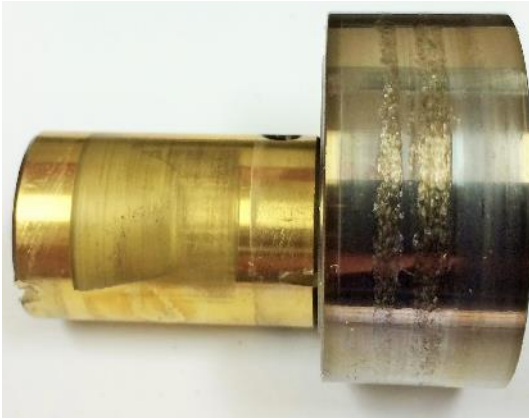


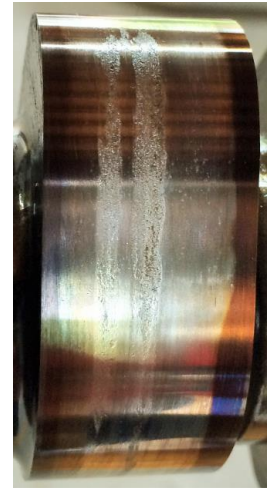
Image showing galling and spalling of a single camshaft lobe failure.



Wear on the roller to pin interface



Galling and spalling on the exhaust roller and camshaft lobe



**Action:**

Inspect the camshaft for re-use following the service manual 4310736 section 2 procedure 175-002-024-tr on QSOL. Ensure to consult the service bulletin 3666052 as outlined in the service manual.

If this failure mode is observed during engine repair, even if it is not the primary failure mode, measure and record the valve lash prior to disassembly. Submit a TSR to return the parts to Cummins South Pacific Engineering. Repair ISX engine as per QSOL procedure.

**Preventative Measures:**

Ensuring maintenance practices are kept in line with Cummins guidelines is the best preventative action against this failure mode. This includes ensuring oil drain intervals, valve adjustment intervals, oil cleanliness and oil classification is suitable for the application and duty cycle per Service Procedure 359-009 Lubricating Oil and Filter Intervals.

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