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TO: Service Locations

FROM: Technical Service

SUBJECT: **DD Platform Camshaft Housing With Scored Journals**

ISSUE

Detroit has been receiving a number of DD platform camshaft housings that have been replaced due to scoring in the camshaft journals. In the majority of these cases, the wear is normal and the camshaft housing should not have been replaced.

CAUSE

The DD platform camshaft housing is made of aluminum. This soft material is machined to be the camshaft bearing surface. The DD platform camshafts only operate the intake and exhaust valves, so the load on these components is considerably less than on engines where the injector was also operated from the camshaft.

REQUIRED ACTION

Debris score marks may be seen on the camshaft housing journal surfaces. Few or single score marks are typically caused by fine metal chips being flushed through the system from the initial new engine build. These individual score marks should be ignored as the design robustness will handle it without any problems.

If scoring is across 60% or more of a single journal surface, then the surface should be considered to have been compromised, and replacement is recommended. Note that if severe scoring is found, this is an indication of debris contamination, and the root cause should be investigated. See Table 1 for examples of normal and abnormal camshaft housing journal wear.



Single Score Mark-Normal



40% Score Marks-Normal



60% Score Marks-Abnormal

Table 1 – Examples of Camshaft Housing Journal Wear**CONTACT INFORMATION**

Please contact the Detroit™ Customer Support Center at (800) 445-1980 or email csc@daimler.com if you have any questions.