SUBJECT: Mooney M20TN - Crankcase Breather Tube Inspection and Cleaning

MODELS/ SN AFFECTED: Mooney M20TN Acclaim and Type-S Aircraft w/TSIO550G( ) installed.

TIME OF AFFECTED: WITHIN NEXT 15 FLIGHT HOURS - Re-inspect at intervals not to exceed 100 hours time in service.

INSTRUCTIONS: Read entire procedures before beginning work.

INFORMATION: Continental Motors Inc. has found instances of oil coking and deposit build up at the crankcase breather outlet tube inside of the left hand exhaust tailpipe, which could result in the engine exhibiting higher than normal crankcase pressures and or increased oil consumption. This Service Bulletin is to provide instructions for inspecting and cleaning of the crankcase breather tube outlet and/or replacement of the crankcase breather rubber hoses. The attached compliance card needs to be filled out and returned to Mooney Airplane Company upon completion of this Service Bulletin M20-312.

INFORMATION: Read entire procedures before beginning work.

BREATHER TUBE AND HOSE INSPECTION:

1.1. Turn master switch - OFF.

1.2. Remove top and bottom cowling per instructions provided in Chapter 71-10-00 of applicable MAC aircraft Service & Maintenance Manual.

1.3. Using a bright light source, inspect crankcase breather tube tailpipe fitting on the left side engine exhaust tailpipe. Viewing from tailpipe outlet look into the tailpipe and inspect for oil coking and build up of deposits at crankcase breather tube tailpipe fitting on inner wall of tailpipe (see Figure SB M20-312-1).

1.4. The outlet opening is approximately 5/8 in. (.625) when clear. Inspect all rubber crankcase breather tubes for damage or cracking (see Figures SB M20-312-2 & 3).

a.) If outlet is clear and rubber hoses are in good condition, proceed to step 1.9.

   - Re-inspect at intervals not to exceed 100 hours time in service.

b.) If outlet has build up of deposits and/or rubber hoses are found damaged, proceed to Breather Tube Cleaning.

BREATHER TUBE CLEANING:

1.5. Loosen clamp and slide hose from crankcase breather tube tailpipe fitting on left hand exhaust tailpipe (see Figure SB M20-312-2).

1.6. Using a hard wire brush and/or a scraping tool sized to fit inside the tailpipe fitting, insert tool into tailpipe fitting and break away any deposit build up from interior of tube.

CAUTION:

Care must be taken to prevent damage to the interior of tube and tube to tailpipe weld connection. Remove only deposits from oil coking. DO NOT use any graphite impregnated tool on exhaust pieces.
1.7. After removing build up, use wire bristle brush to clean any fine particles that remain and flush with Stoddard solvent.

1.8. Reinstall hose(s) onto breather tube outlet tube(s) and tighten clamp(s) (see Figures SB M20-312-3)

**NOTE:**
Replace any rubber breather hose if it is damaged or cracked using P/N 628555-45 (trim to fit).
Per the engine maintenance manual, inspect the entire length of the breather system for blockage (FOD) and remove as required.

1.9. Re-install top and bottom cowling per instructions provided in Chapter 71-10-00 of applicable MAC aircraft Service & Maintenance Manual.


**NOTE:**
Fill out compliance card and send by MAIL or FAX to Mooney Airplane Company as indicated on the attached Compliance Card (see to Figure M20-312-4)

1.11. Return aircraft to service.

1.12. Procedure complete

**WARRANTY:** Mooney Airplane Company, Inc. will warrant labor 1 hour when corrective action is done in accordance with procedures of this Service Bulletin for aircraft currently covered under the Mooney Airplane Company, Inc. factory warranty program.

**REFERENCE**
1. MAC Maintenance Manual (applicable A/C)

**DATA:**

**PARTS LIST:** Refer to Continental Motors - Customer Service at 800.326.0089 for part procurement.

**Parts Kit P/N:**

<table>
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<tr>
<th>Item</th>
<th>P/N</th>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>1</td>
<td>628555-45</td>
<td>HOSE (.75 I.D. X 30”) Trim to Fit</td>
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</table>
NOTE: HOSE ASSY HAS BEEN REMOVED

INSPECT FOR OIL COKING AND BUILD UP OF DEPOSITS 5/8 in. (.625") WHEN CLEAR

Figure SB M20-312-1 - CRANKCASE BREATHER TUBE INSPECTION

Figure SB M20-312-2 - CRANKCASE BREATHER TUBE, HOSE AND CLAMPS
Figure SB M20-312-3 - CRANKCASE BREATHER HOSE INSPECTION

- Replace all damaged or cracked hoses if required.
- Remove any blockage and/or coking.

Hose P/N 628555-45
TRIM TO FIT (2) PLACES

LH SIDE VIEW
Figure SB M20-312-4 - Compliance Card