

(a) Unique Control #: 20000329SH004 (b) Difficulty Date: 02/14/2000
(c) Registration # : 5259R (d) Submitter Type : D - MECHANIC
(e) Submitter Designator: (f) Submission Date: 3/29/2000 7:50:33 AM

(a) Operator Designator : (b) Operator Type : General Aviation
(c) JASC/ATA Code : 7322
(d) Stage of Operation : NR - NOT REPORTED
(e) How Discovered : O - Other
(f) Nature of Condition : R - PARTIAL RPM/PWR LOSS
: J - WARNING INDICATION
(g) Precautionary Procedures: A - UNSCHED LANDING
(h) FAA Region : WP (i) District Office : 27

	Manufacturer	Model	Serial Number	Total Time	Total Cycles
(a) Aircraft	CESSNA	172M	17263473		
(b) Engine	LYC	O320E2D			
(c) Propeller					

A ROUGH RUNNING ENGINE, AND A LOSS OF ENGINE POWER (MAXIMUM RPM 2200) CAUSED PILOT TO MAKE A PRECAUTIONARY LANDING. TECHNICIAN INSPECTED THE INDUCTION SYSTEM AND FOUND THE CARBURETOR HEAT AIR VALVE SEAL MATERIAL HAD SEPARATED AND WAS INGESTED BECOMING LODGED ACROSS THE CARBURETOR VENTURI. THIS DISRUPTION OF AIR FLOW THROUGH THE VENTURI CAUSED IMPROPER FUEL/AIR MIXTURE AND FUEL SCHEDULING RESULTING IN A LOSS OF POWER. THIS PART HAD NOT BEEN CHANGED SINCE MANUFACTURE OF AIRCRAFT 25 YEARS AGO. TOTAL TIME ON AIRCRAFT 3,706.0 HOURS. RECOMMENDATION: MORE FREQUENT INSPECTIONS OF CARBURETOR AIR BOX ASSEMBLY FOR WEAR AND DETERIORATION AND TOTAL TIME IN SERVICE. (X)

(a) Part Name : CARBURETOR (b) Manufacturer's Name :
(c) Part Number : 55018010 (d) Serial Number :
(e) Part Condition: CONTAMINATED (f) Part/Defect Location: AIRBOX
(g) Total Time : 3706 (h) Total Cycles :
(i) Time Since :

6. Component/Assembly That Includes Defective Part

(a) Component Name: CARB AIR BOX ASSY (b) Manufacturer's Name :
(c) Part Number : 055211313 (d) Serial Number :
(e) Model Number : (f) Location :
(g) Total Time : (h) Total Cycles :
(i) Time Since :

7. Structure Causing Difficulty

(a) Body or Fuselage Station - From/At: To:
(b) Water Line - From/At: To:
(c) Crack Length : (d) Number of Cracks:
(e) Stringer - From/At: To:
(f) Butt Line - From/At: To:
(g) Wing Station - From/At: To:
(h) Structural Other: (i) Corrosion Level :

----- End Of Report -----

Service Difficulty Report

1. Submitter Information

 (a) Unique Control #: 2004FA0000745 (b) Difficulty Date: 04/24/2004
 (c) Registration # : 5048E (d) Submitter Type : D - MECHANIC
 (e) Submitter Designator: (f) Submission Date: 9/27/2004 10:16:31 AM

2. Codes

 (a) Operator Designator : (b) Operator Type : General Aviation
 (c) JASC/ATA Code : 7160
 (d) Stage of Operation : TX - TAXI/GRND HDL
 (e) How Discovered : O - Other
 (f) Nature of Condition : R - PARTIAL RPM/PWR LOSS
 (g) Precautionary Procedures: O - OTHER
 (h) FAA Region : NM (i) District Office : 03

3. Major Equipment Identity

	Manufacturer	Model	Serial Number	Total Time	Total Cycles
(a) Aircraft	CESSNA	172N	17271699		
(b) Engine	LYC	O320H2AD	L217076T		
(c) Propeller					

4. Problem Description

 DURING RUN-UP, BEFORE DEPARTURE, THE CARBURETOR HEAT WAS CHECKED AT 1000 AND 1700 RPM WITH ABOUT 75 RPM DROP. DURING THE FLIGHT BACK, IN CRUISE FLIGHT, THE CARB HEAT WAS CHECKED AGAIN AT VARIOUS POWER SETTINGS, WORKING NORMALLY WITH ABOUT A 100 RPM DROP. AFTER ARRIVAL, THE CARBURETOR AIR BOX WAS REMOVED FOR INSPECTION. UPON INSPECTION, 2 EA .7500 IN PIECES OF THE FLAPPER VALVE SEAL WERE FOUND MISSING ON TWO CORNERS OF THE FLAPPER VALVE. OTHERWISE, THE CARBURETOR AIR BOX ASSY WAS INTACT.

5. Specific Part or Structure Causing Difficulty

 (a) Part Name : AIR BOX (b) Manufacturer's Name : CESSNA
 (c) Part Number : 05521644 (d) Serial Number : 7993
 (e) Part Condition: DAMAGED (f) Part/Defect Location: CARBURETOR
 (g) Total Time : 7993 (h) Total Cycles :
 (i) Time Since :

6. Component/Assembly That Includes Defective Part

 (a) Component Name: (b) Manufacturer's Name :
 (c) Part Number : (d) Serial Number :
 (e) Model Number : (f) Location :
 (g) Total Time : (h) Total Cycles :
 (i) Time Since :

7. Structure Causing Difficulty

- (a) Body or Fuselage Station - From/At:

To:
- (b) Water Line - From/At:

To:
- (c) Crack Length :

(d) Number of Cracks:
- (e) Stringer - From/At:

To:
- (f) Butt Line - From/At:

To:
- (g) Wing Station - From/At:

To:
- (h) Structural Other:

(i) Corrosion Level :

----- End Of Report -----

Service Difficulty Report

1. Submitter Information

(a) Unique Control #: 20000627SH013 (b) Difficulty Date: 06/17/2000
 (c) Registration # : 734TB (d) Submitter Type : D - MECHANIC
 (e) Submitter Designer: (f) Submission Date: 6/27/2000 9:57:35 AM

2. Codes

(a) Operator Designator : (b) Operator Type : General Aviation
 (c) JASC/ATA Code : 7160
 (d) Stage of Operation : CR - CRUISE
 (e) How Discovered : V - Visual
 (f) Nature of Condition : R - PARTIAL RPM/PWR LOSS
 (g) Precautionary Procedures: O - OTHER
 (h) FAA Region : EA (i) District Office : 11

3. Major Equipment Identity

	Manufacturer	Model	Serial Number	Total Time	Total Cycles
(a) Aircraft	CESSNA	172N	17269091		
(b) Engine	LYC	O320H2AD	RL655176T		
(c) Propeller					

4. Problem Description

ENGINE DEVELOPED VIBRATION IN-FLIGHT AND LOSS OF POWER. MAINTENANCE REMOVED CARBURETOR
 AIR BOX AND CARBURETOR. FOUND PIECE OF SEAL FROM AIR BOX FLAPPER VALVE BROKEN OFF AND
 LODGED IN THE VENTURI. (X)

5. Specific Part or Structure Causing Difficulty

(a) Part Name : AIR BOX (b) Manufacturer's Name :
 (c) Part Number : 05521641 (d) Serial Number :
 (e) Part Condition: MISSING (f) Part/Defect Location: FLAPPER SEAL
 (g) Total Time : 4925 (h) Total Cycles :
 (i) Time Since :

6. Component/Assembly That Includes Defective Part

(a) Component Name: CARBURETOR (b) Manufacturer's Name : FACET
 (c) Part Number : 105135 (d) Serial Number : CK11816
 (e) Model Number : (f) Location :
 (g) Total Time : (h) Total Cycles :
 (i) Time Since :

7. Structure Causing Difficulty

(a) Body or Fuselage Station - From/At: To:

- (b) Water Line

- From/At:

To:
- (c) Crack Length :

(d) Number of Cracks:
- (e) Stringer

- From/At:

To:
- (f) Butt Line

- From/At:

To:
- (g) Wing Station - From/At:

To:
- (h) Structural Other:

(i) Corrosion Level :

----- End Of Report -----