

Moohey

Olvi

N19788

# ENGINE LOG

# AND MAINTENANCE RECORD

Moohey

# ENGINE LOG

## AND MAINTENANCE RECORD

Type AP-13

Record of

Make

Model

Serial

From

19

To

19

Detailing Time From

Hours—Minutes

To

Hours—Minutes

*Handwritten:* 1945

*Handwritten:* D-37D

*Handwritten:* 1-725-36



## EXCERPT FROM THE CIVIL AIR REGULATIONS

CAR-01.731 ENGINE LOG: The registered owner of a certificated aircraft shall maintain an engine log book for each engine installed therein and shall be responsible for recording in such log book current reports of line and periodic inspections, duration of the running time of the engine both on the ground and in the air, changes in the engine installation, and of the overhaul and alteration of the engine.

CAR-01.732 The log books required in CAR-01.730 and CAR-01.731 shall be carried in such aircraft at all times when it is away from the landing area regularly used as its base of operations, provided, however, that log books for certificated airline aircraft may be maintained and kept at terminals.

### INSTRUCTIONS FOR THE USE OF THIS LOG BOOK

All required data must be entered in the proper columns regularly. The column headed REMARKS is particularly important, for in that column must be entered the following information:

1. A record of all Line and Periodic Inspections and results.
2. A record of all accidents in which the engine is involved, with detailed account of damage and repairs.
3. An endorsement by a certificated mechanic responsible for the approval of all repairs, including his rating and certificate number.
4. A copy of Form AC-18-1 (Repairs and Alterations) shall be incorporated in the rear of the log book, and shall become a part hereof; whenever such form is necessary; and each such incorporated form shall be noted in the REMARKS column.
5. A record of all Servicing and Overhauls, properly endorsed.

### MAKE ALL ENTRIES WITH PEN AND INK—MAKE NO ERASURES

NOTE: Only structural parts approved by the Secretary shall be used in making replacements in a certificated engine; and the repair agency shall furnish the owner an affidavit showing that the parts used are so approved. This affidavit shall be pasted in, and shall become a part of, the engine log book.



DATE

REMARKS

ENTER HERE GENERAL DATA WITH REFERENCE TO "LINE" AND "PERIODIC" INSPECTIONS - ACCIDENTS - REPAIRS - ALTERATIONS -  
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19\_\_

10/24/57 No Rear inspection - Oil drained - rebleared  
with 50wt Shell. Plugs cleaned & gapped.

Magneto Points Checked - Oil Spout Tightened.


AD bullet in 58-19-3 Compilid with. Engine  
washed down. OX & Arrow thy.

R W. Stibel

925 466337

11-12-57 50 lb. inspection & repairs. Oil changed. Rear  
Wheel bearings. Check out tires. Control length. Rear  
Sash springs, set. Plug & level. Replace front fender  
Rivets. Fill in holes with. Plug & level. Rear  
Sash to rear. Control. 925 466337

12/22/57 1222313

| DATE     | TIME ON GROUND | TIME IN AIR | TOTAL TIME |  | SIGNATURE OF PERSON MAKING EACH ENTRY   | CERTIFICATE (LICENSE) NUMBER | RATING |  |
|----------|----------------|-------------|------------|--|---|------------------------------|--------|--|
| 19 58    |                |             |            |  |  |                              |        |  |
| 12-17-58 |                |             | 190 / 0    |  |   |                              |        |  |
|          |                |             |            |  |   |                              |        |  |
|          |                |             |            |  |   |                              |        |  |
|          |                |             |            |  |   |                              |        |  |
|          |                |             |            |  |   |                              |        |  |
|          |                |             |            |  |   |                              |        |  |
|          |                |             |            |  |   |                              |        |  |
|          |                |             |            |  |   |                              |        |  |
|          |                |             |            |  |   |                              |        |  |
| TOTALS   |                |             |            |  | <p>CARRY THE TOTALS OF THE THREE "TIME" COLUMNS FORWARD TO TOP OF FRESH PAGE</p>      |                              |        |  |



DATE

19

TIME ON GROUND

TIME IN AIR

TOTAL TIME

SIGNATURE OF PERSON MAKING EACH ENTRY

CERTIFICATE (LICENSE) NUMBER

RATING

TOTALS

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Date 12-15-53 5-9 Tach 95-3

Checked OK

I certify that this engine has been inspected

check screens

wash down lens

in accordance with log book inspection and

5 top oil tank

was determined to be in satisfactory condition.

Arnold Thorsen

Signature Arnold Thorsen

13175

Certificate No. 1151295069A



DATE

19\_\_

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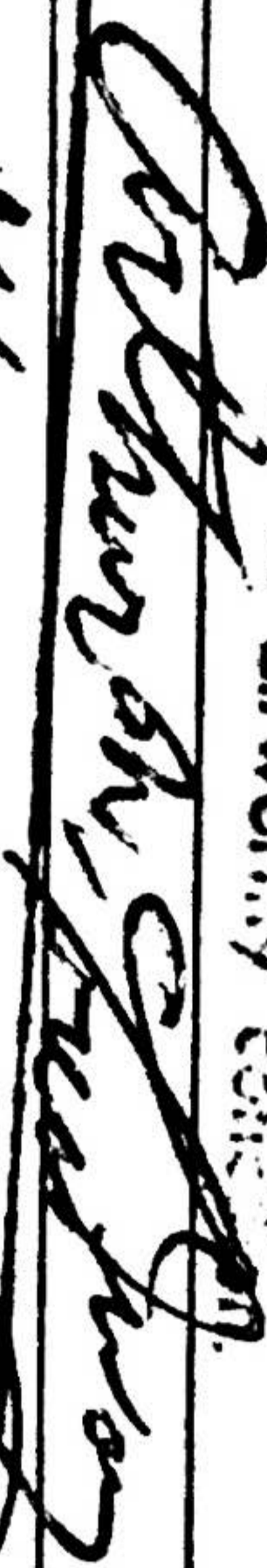
Date 5-14-59 Tach 334

I certify that this aircraft has been inspected

in accordance with Part 43 inspection and

was determined to be in airworthy condition.

Signature



Certificate No.

4151295269 #14

5/14/59 50 hr insg oil changed - screens cleaned



DATE

19\_\_

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12/4. Amphibious Truck date in installed &

Newly Group REW-42E Sparks plugs

cleaned screens - check for oil

Leak - check page at turning -

check oil -

Walter BATE 12903

The Down Cabin Heater valve so as to

prevent its use. Ha T/ Sach Times 95

Change will be made to complete FD note (2)

oil changed same check

D. W. Bate BATE 12903

oil change in same drain



DATE

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of and above

25 hr. Check & oil change  
completed this date.

B. Allen

124941A

| DATE    | TIME ON GROUND | TIME IN AIR | TOTAL TIME |  | SIGNATURE OF PERSON MAKING EACH ENTRY     | CERTIFICATE (LICENSE) NUMBER | RATING |
|---------|----------------|-------------|------------|--|---|------------------------------|--------|
|         |                |             |            |  |   |                              |        |
| 19__    |                |             |            |  |   |                              |        |
| 3/10/60 |                |             | 5:26.49    |  | 100 W. Check - Tech Reading               | 5:26.49                      |        |
|         |                |             |            |  | Get Mixture Power - checked               |                              |        |
|         |                |             |            |  | checked nuts, bolts, screws for           |                              |        |
|         |                |             |            |  | oil & air screws - flushed carb.          |                              |        |
|         |                |             |            |  | checked engine controls - oiled controls  |                              |        |
|         |                |             |            |  | checked battery - installed               |                              |        |
|         |                |             |            |  | new BG RB 4855 spark plugs - checked      |                              |        |
|         |                |             |            |  | Mag points & returned                     |                              |        |
|         |                |             |            |  | Mags to engine - checked compression      |                              |        |
|         |                |             |            |  | (#1-157, #2-175, #3-14, #4-145) - checked |                              |        |
|         |                |             |            |  | starter & brushes                         |                              |        |
|         |                |             |            |  | checked Prop & Spinner for condition      |                              |        |
|         |                |             |            |  | & wiring - installed used                 |                              |        |
|         |                |             |            |  | checked Pipes & fast air                  |                              |        |
|         |                |             |            |  | checked air manifold - checked engine     |                              |        |
|         |                |             |            |  | in general                                |                              |        |
|         |                |             |            |  | checked engine & scanning                 |                              |        |
|         |                |             |            |  | Prop up O.K.                              |                              |        |
|         |                |             |            |  | Western Engine Service - May 4, 1960      |                              |        |
|         |                |             |            |  | W. J. DeCavillio                          |                              |        |
|         |                |             |            |  | E-3711499                                 |                              |        |
| TOTALS  |                |             |            |  |   |                              |        |

CARRY THE TOTALS OF THE THREE "TIME" COLUMNS FORWARD TO TOP OF FRESH PAGE



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TIME ON GROUND

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TOTAL TIME

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|  |   |  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|--|
| 5/12/60 - Top Overhaul - T.T.          | 590 Hrs. - Tail Rotor 590                       |  |  |  |  |  |  |  |
| inspected new guides - guid            | see f + withd pap line (new Risers)             |  |  |  |  |  |  |  |
| guid + home cylinders .020             | oversize - parts replacement                    |  |  |  |  |  |  |  |
| list furnished owner & attached        | to the back of this log - engine                |  |  |  |  |  |  |  |
| running 3 Hrs - Engine Runway          |   |  |  |  |  |  |  |  |
| Western Engine Service - Leonard       | - Walter J. Woodruff E39K54                     |  |  |  |  |  |  |  |
| 5/14/60                                | 599 Hrs -                                       |  |  |  |  |  |  |  |
| changed oil (Shell 50W)                | cleared fuel                                    |  |  |  |  |  |  |  |
| checked nuts, bolts, screws            | for security - checked engine controls for      |  |  |  |  |  |  |  |
| operation - checked controls - cleared | out gap & tested spark plugs - checked          |  |  |  |  |  |  |  |
| Wing points & forward                  | pages to engine - checked Starter & gear bushes |  |  |  |  |  |  |  |
| TOTALS                                 |   |  |  |  |  |  |  |  |

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and component parts - checked exhaust system for cracks - checked  
Prop & Spinner for condition & warping - checked engine in  
general washed engine & cowling - removed oil.  
Miss Repair - (overhauled fuel pump - installed new brushes  
in starter & gear) (list of Service letters & AD on back page)  
Western Engine Service - Hayward Airport - W. J. Dinkler in E371654

I certify that this aircraft has been inspected in  
accordance with a Periodic inspection  
and was determined to be in airworthy  
condition. All AD Bulletins thru 60-10 spid. with

7 King AE380034 EA  
Authorized Signature 7 King AE380034 EA  
Number



DATE

19\_\_

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7/11/60 - 166 - 656:45 - 50 hrs. checked - changed oil 1 qt. 15W/40

Repaired fuel oil tank screws - checked battery - checked engine

last, screws for security - checked engine controls for operation

checked out 100 - 100 hrs. set gear to start of shift - 100 hrs. - checked

last 100 - checked engine on ground - checked engine - checked

new 100 O.K. - Western Engine Division - 100 hrs. - 100 hrs. - 100 hrs.



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STOH - TT + Tach Reading 57003.5 - changed oil & filter

#3704) changed fuel oil & carb. air screens - checked carb. - checked  
units bolts screens for looseness - checked engine controls for  
operation - oil controls - checked, but gaps & tested head gaskets -  
checked they permit & retained them for engine - checked valves  
& gas valves & contacts - checked & set down positive & loose  
manifold for cracks - checked large & spinning for mounting  
& condition - checked engine in general - work on mounting  
Pumps Oils - Pumps & Oil Systems (checked with 51 20-64-  
1 2 + 3, engine oil but on line, carb. dump on line bearing oil  
but on line - into oil new gas and plate (checked) - into oil  
new carb. on dust

Aluminum Engine Service - Thomas - 11416 G. P. Road - 5371694





| DATE         | TIME ON GROUND | TIME IN AIR | TOTAL TIME | SIGNATURE OF PERSON MAKING EACH ENTRY   | CERTIFICATE (LICENSE) NUMBER | RATING |
|--------------|----------------|-------------|------------|---|------------------------------|--------|
|              |                |             |            |   |                              |        |
| 19 <u>61</u> |                |             |            |   |                              |        |
| <u>4-17</u>  |                |             | 807.24     | Repaired landing gear & cowling, replaced cowling lock nut & seal, new seal on A/B struts, new propeller blades installed, new generator brush holder, new condenser box, new cabin heat duct, changed oil cleaned avionics, cleaned & checked spark plugs, Compression 18 1/4 2 11/2 120 |                              |        |
|              |                |             | 3 9/12     | AD 60-28-2 Bendix magneto for, checked mag points & timing  |                              |        |
|              |                |             |            | Inspected in accordance with §  |                              |        |
|              |                |             |            | Periodic inspection and was determined to be in an airworthy condition.   |                              |        |
|              |                |             |            | West Texas Flying Service, Inc.<br>Repair Station No. 1004  |                              |        |
|              |                |             |            | Signed <u>Steve Heston</u>  |                              |        |
|              |                |             |            | Engine total time <u>807.24</u>   |                              |        |
| TOTALS       |                |             |            |   |                              |        |

DATE 4-17 EVERY THE TOTALS OF THE THREE "TIME" COLUMNS FORWARD TO TOP OF FRESH PAGE

DATE

19

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6/24/61 - 258 846 Tech Reading 846.32 - 50 hr check  
 changed oil (570W) cleaned fuel coil & carburetor  
 removed spark plugs - cleaned - removed bolts - removed  
 removed - removed caps - removed for operation - ordered  
 parts - cleaned, retapped & tested - replaced -  
 battery - suggested service - removed - replaced  
 + service - Re-set oil pressure - V.P.P. - removed  
 O.K.  
 Mission Aircraft - Eugene Service - Henry Col. - W. J. W. [unclear]



DATE

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MUST BE

19\_\_

9/5/61 - 228 - 921 - 25 lbs reverse - changed oil

check 4 5/11 - check fuel oil & oil circulation - flush  
carb - & supply to the service for viscosity - viscosity control  
for operation - oil level tanks - 1/2 battery - & engine in general -  
checked engine & cooling - Cur-up Op Km  
Western Corning Pt A engine - they of the engine

11/17/61 - Work 850 - completed with PD CI-19-4

inspected blades for cracks on the whole of blades ready  
by Allen Prop - The general



DATE

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3/14/62 - 397 - 983.31 T.T. - 100 hrs. service - changed oil

add (450) hours of fuel oil & tank. oil is removed - flushed test

run to bolts, screws for security - engine controls for operation

with out tools - 1.6.62 they - 1.6.62 they - 1.6.62 they

(1.6.62) - 1.6.62 they - 1.6.62 they - 1.6.62 they

then - 1.6.62 they - 1.6.62 they - 1.6.62 they

removed - 1.6.62 they - 1.6.62 they - 1.6.62 they

removed - 1.6.62 they - 1.6.62 they - 1.6.62 they

removed - 1.6.62 they - 1.6.62 they - 1.6.62 they

removed - 1.6.62 they - 1.6.62 they - 1.6.62 they

Western Aircraft & Engine Service - 1.6.62 they - 1.6.62 they - 1.6.62 they

DATE

TIME IN  
HOURS

TIME  
IN  
MIN

TOTAL TIME

SIGNATURE OF PERSON  
WORKING EACH ENTRY

PROJECT  
NUMBER

PAGE

TOTAL

CARRY THE TOTALS OF THE THREE TIME  
ELEMENTS OVER TO THE TOP OF EACH PAGE

DATE

19

TIME ON GROUND

TIME IN AIR

TOTAL TIME

SIGNATURE OF PERSON MAKING EACH ENTRY

CERTIFICATE (LICENSE) NUMBER

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TOTALS

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9/27/62 - T.T. Veach 1030 - 440 SPROH - General Overhaul  
 changed oil filter #57W - cleaned fuel oil & carb air screens -  
 checked carb - valves work very well for security - valve contact  
 for operation - oxid contact - cleaned jet jets & throttle link rollers -  
 valve points to correct May to Aug - valves to open - broken &  
 connected to - exhaust pipes & heater removed - winter the  
 system - V Pump & valves for security & condition - V compression  
 #1-155 #2-153 #3-135 #4-156 V fasting - V engine oil general -  
 washed engine & carb - oil - replaced oil (used exhaust pipe of 1961 -  
 installed M.S.K. 20-83 oil cooler oil filter - new points & carburetor  
 right May - new starter Pulley Drive - used carb. oil jet  
 angle support) - changed oil - (11) List on back page

over -



DATE

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3/30/63 - T.T. + Jack 1072 - 452 Hrs STOP

50 hours service - changed oil (check of #50W) - changed filter  
oil (Carter air services - standard filter - vents fully  
removed for quantity - engine service - also checked  
oil level - tank - checked oil pump & filter -  
checked timing - engine running - checked operation of  
control - running OK - replaced 3 - rivets (16) -  
replaced 4 screws (check of - torque (avg)  
Western Aircraft & Engine Service - Hayward Airport  
W.A. J. Van Leeuwen E371654





DATE

TIME ON GROUND

TIME IN AIR

TOTAL TIME

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RATING

19

9/19/63 - 7.7

1098 -

Major Overhaul Engine

4 General services - complete overhaul - and

check by Linders - check for pits & corrosion

as per Manual section - check for pits & corrosion

parts - check for corrosion - check for pits & corrosion

as per Manual section - check for pits & corrosion

Painted surfaces - check for pits & corrosion

Put in place - check for pits & corrosion

to this log - check for pits & corrosion

Under tarp - check for pits & corrosion

Weight 3 lbs - check for pits & corrosion

Bill of Materials - check for pits & corrosion

Restrip Paint & Engine Service

Hayward Airport

CARRY THE TOTALS OF THE THREE "TIME" COLUMNS FORWARD TO PAGE F391694

ALL LIST & Description #50-N05

F391694

DATE

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~~PERIODIC~~ ~~THIS AIRCRAFT HAS BEEN INSPECTED IN~~  
accordance with a PERIODIC inspection  
No. 22-63 and was determined to be in airworthy  
condition. All AD Bulletins thru        capt. with.

        
Authorized Signature        Number       

Chromo 149100 1098 hrs



DATE

19

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100HR LUBR. METAL (NEW-REPAIRS) FOUND ON SCREEN.

NO REPAIR TO BE CHECKED AFTER 5 HOURS ENGINE TIME.

PULSES CLEARED & SHIPPED. MTRGS OK'D. & TIMED. OIL

CARRIAGES - TEX SO. PREP CLEARED & PAINTED. CONTROLS

CHKD. GROUND RLVN OK. COMPRESSOR #1 65 75 #3 80 42 77

#4 75. ROCKER BOX GASKET REPLACED #1 CYL, GEN

BELT TIGHTENED. FUEL STRAINER CLEANED. CARB DRAINED

I CERTIFY THAT THIS ENGLAVE  
HAS BEEN INSPECTED IN ACCORDANCE

WITH A 100HR INSPECTION AND WAS

DETERMINED TO BE IN AIRWORTHY

CONDITION

Name James W. Martin

License # A401552031

2/2/64



DATE

19

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SCREEN CHECKED AS PER PRECEDING COMMENT

NO METAL FOUND - ENGINE IS SATISFACTORY

*James C. ...*

AXP 1552031



DATE

19\_\_

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36445 - T T ~~1311~~ 1311

Workshop this repair has been completed  
no further work will be required  
no repairs to be required -  
P. S. [Signature] 1150405 (11)

DATE

19

TIME ON GROUND

TIME IN AIR

TOTAL TIME

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18

1918 - Run 100. Re-Engine, Re-Adjust & Run Pumps  
5-11-18. Run 100 - 5500

Engine - 100 - 5500

also with C.S. Motor - 100 - 5500

1178558

1178558

1178558

1178558

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| DATE | TIME ON GROUND | TIME IN AIR | TOTAL TIME | SIGNATURE OF PERSON MAKING EACH ENTRY | CERTIFICATE (LICENSE) NUMBER | RATING |
|------|----------------|-------------|------------|---------------------------------------|------------------------------|--------|
|      |                |             |            |                                       |                              |        |
| 19__ |                |             |            |                                       |                              |        |

I certify that this Engine has been inspected  
 in accordance with Reg. 43 Annual Inspection  
 and was determined to be in  satisfactory  
 unsatisfactory

Condition: Good  
 Name: St. Hughes Co. OP 1178498-1A

Aircraft Time: .....  
 Engine Time: ..... 150.4  
 Date of Inspection: Sept 5-1969

Installed new RPM 38E spark plugs (8) on

Sept 13, 1969 US 38 engine overhaul

TOTALS

CARRY THE TOTALS OF THE THREE "TIME" COLUMNS FORWARD TO TOP OF FRESH PAGE

DATE

19\_\_

REMARKS  
ENTER HERE GENERAL DATA WITH REFERENCE TO "LINE" AND "PERIODIC" INSPECTIONS-ACCIDENTS-REPAIRS-ALTERATIONS-  
SERVICING - AND OVERHAULS - AS OUTLINED IN THE FRONT OF THIS BOOK UNDER THE HEADING "INSTRUCTIONS FOR  
USE OF THIS LOG BOOK."  
ALL DATA MUST BEAR THE ENDORSEMENT OF A CERTIFICATED MECHANIC, AND HIS RATING AND CERTIFICATE NUMBER  
MUST BE SHOWN.

1/11/00  
1725-36  
0320A1414

Engine Removed 1594 hrs

Chrom. Major 1898 hrs

206 hrs

Checked with new log & installed in Case 177513

1/17/00

DATE

MEMORANDA

DATE

Mooney S

Mooney S

Mooney S

Mooney S

Mooney S

Mooney S

Mooney S

M 20-37

Service letter - AD

58-19-3 Carb air Box mod. (complied)

Ly 237

✓ 58-15-2 Marvel Carb. float (NR)

Ly 254B

59-10-7 Cyl. Piston retainers (complied)

M 20-38

59-11-3 Inspect Ex pipes & Heater manifold (✓)

43-

Ly 237

59-13-7 Marvel Carb. Float (NA) complied

M 20-57

59-25-6 Carb. Alternate air (complied)

M 20-64-1, 2+3 (copy leaf) Cis bot valve - Dump valve - bearing air let valve

✓ 61-19-4

✓ 61-22-11

M 20-52A

M 20-53

mutual oil cooler air deflector (c)

60-26-2 Bendix Mags - oil Distrib. gear shaft (c)

DATE

MEMORANDA

Mosley S.H.

- PD

6-2-4-2 Manned Cars - Long - Top safety means (at D.H.)

6-3-8-4 Transport Equip Blades for cracks (C)

6-5-22-3 Manned Cars - Sectional Relstat Small - Value - (at 1000 hrs)

48-C 6-11-24-4 Manned Cars - Blades Sectional Relstat (at 1000 hrs)

7-1-2-1-1 Project Review of 1/6 - Jan. 1967

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