

Maintenance Record

N103SU
S/N: 210895D
ENG S/N: CAE835942
Hook: 880.3

Hobbs: 2065.0
TTAF: 12787.1
TTENG: 3332.3

Date: 12/17/20
TE's: 8679
CYC: 3468

1. C/W Engine 150/300/600 manufactures inspection checklist as dictated in the Rolls Royce C-20B M/M table 603 72-00-00. (See attached Checklist)
2. Removed and replaced airframe scavenge oil filter.
3. Removed and replaced engine driven fuel pump fuel filter.
4. Changed engine oil. Serviced with 2197 turbine engine oil.
5. Run leak check performed, no defects noted.

All Work performed IAW RR C-20B M/M

Chris Burdzy _____

Maintenance Record

N103SU	ACFT S/N: 210895D	Hobbs: 1993.5
12/1/20	TTAF: 12715.6	TE'S: 8398
ENG S/N: CAE-835942	ENGTT: 3260.8	CYC: 3435

Hook Hours: 815.9

1. 150 Hour Engine Insp due soon. Performed 150 Hour Engine Inspection.
2. Removed and Replaced Igniter P/N CH34168 due to excessive wear.
3. Inspected upper and lower Engine Oil Chip Detectors.
4. Performed Engine run, leak check, no defects noted.
5. Pilot performed maintenance flight with no defects noted.

I certify this Engine has been inspected/ serviced/ repaired per Rolls Royce MM 10W2 and was found to be in serviceable condition at this time.

Jerrold W. Owen. A&P [REDACTED]

MAINTENANCE RECORD

N103SU	Hobbs: 2023.4	Date: 12-7-20
S/N: 210895D	TTAF: 12745.5	TE's: 8509
ENG. S/N: CAE-835942	TTENG: 3290.7	CYC: 3447

Removed fuel control unit PN: 23070606 SN:322392 TSO: 450.7 and installed fuel control PN: M250-10816 SN: 318089 TSO: 0.0 due to erratic engine operation during start up sequence. Replaced iaw RR 10W2 chp. 73-00-00.

Performed fuel bleed, ground run and leak check. Test flight performed. Adjusted engine idle to 62%.

Signed [REDACTED] Tommy Eldridge [REDACTED]

Maintenance Record

N103SU	Hobbs: 1806.6	Date: 9/27/20
S/N: 210895D	TTAF: 12528.7	TE's: 7671
ENG S/N: CAE-835942	TTENG: 3073.9	CYC: 3310

1. Complied with engine 150 hour inspection as dictated in Rolls Royce C20B Maintenance Manual chapter 72-00-00. (see attached checklist)
2. Removed fuel nozzle, disassembled, cleaned, reassembled, and reinstalled. No defects noted.
3. Removed upper chip detector for inspection, no defects noted.

I certify this engine has been inspected with the manufactures 150 hour inspection checklist and has found to be airworthy at this time.

Christopher Burdzy

Maintenance Record

N103SU	Hobbs: 1901.7	Date: 11/5/20
S/N: 210895D	TTAF: 12623.8	TE's: 8057
ENG S/N: CAE-835942	TTENG: 3169.0	CYC: 3382
Hooks Hours: 739.4		

1. Complied with engine 150 hour inspection as dictated in Rolls Royce C20B Maintenance Manual chapter 72-00-00. (see attached checklist)
2. Removed fuel nozzle, disassembled, cleaned, reassembled, and reinstalled. No defects noted.
3. Removed upper chip detector for inspection, no defects noted.
4. Removed and replaced leaking start generator accessory gearbox seal and start generator packing.
5. Run/ leak check performed, no defects noted.

I certify this engine has been inspected with the manufactures 150 hour inspection checklist and has found to be airworthy at this time.

Christopher Burdzy

Maintenance Record

N103SU ACFT S/N: 210895D Hobbs: 1711.2
8/11/2020 TTAF: 12433.3 TE'S: 7273
ENG S/N: CAE- 835942 ENGTT: 2978.5 CYC: 3217
Hook Hours: 588.8

Discrepancy/Corrective Action:

1. decreased ground idle from 66% to 64%.
All work completed IAW RR 10W2

Signed

Jacob Sears AFB

Maintenance Record

N103SU ACFT S/N: 210895D Hobbs: 1743.1
8/23/20 TTAF: 12465.2 TE'S: 7403
ENG S/N: CAE-835942 ENGTT: 3010.4 CYC: 3252
Hook Hours: 593.2

1. 150 Hour Engine Insp due soon. Performed 150 Hour Engine Inspection.
2. Inspected upper and lower Engine Oil Chip Detectors.
3. Performed Engine run, leak check, no defects noted.
4. Pilot performed maintenance flight with no defects noted.

I certify this Engine has been inspected/ serviced/ repaired per Rolls Royce MM 10W2 and was found to be in serviceable condition at this time.

Jerrold W. Owen. A&P #

MAINTENANCE RECORD

N103SU
S/N: 210895D
ENG. S/N: CAE-835942

Hobbs: 1698.2
AFTT: 12420.3
ENGTT: 2965.5

Date: 8-8-2020
TE's: 7221
CYC: 3201

Installed Repaired Engine SN: CAE-835942 (TSO: 125.5) as received from Rauch Performance Turbines with the following Modules/Accessories: **Compressor**; CAC-41102, 125.5 TSO. **Gearbox**; CAG-22613, 0.0 TSO. **Turbine**; CAT-24587, 0.0 TSO. **Fuel Control**; SN: 322392, 125.5 TSO. **Governor**; SN: 26138, 0.0 TSO. **Fuel Nozzle**; SN: 2839, 103.2 TSO. **Bleed Valve**; SN: FF44694, 0.0 TSO.

Installed **Fuel Pump**; SN: T1399, 2566.2 TSO. Serviced with 2197.

During first start attempt (Hobbs: 1698.2), Engine Chip Light illuminated. Two magnetic slivers found on Upper Chip Plug (less than .031"), none on Bottom Plug. Penalty run performed IAW RR 10W2, no defects noted.

Maintenance operational check performed; no defects noted. Power check results: -65 (cold).

Oil Filter and Chip Detector Contamination Inspection Due at 1748.2.

All work performed IAW MDHI CSP-HMI-2, and/or RR 10W2.

Signed _____ **Andrew Dale** _____

N103SU
8/9/2020
ENG S/N: CAE- 835942
Hook Hours: 558.2

ACFT S/N: 210895D
TTAF: 12428.3
ENGTT: 2973.5

Hobbs: 1706.2
TE'S: 7253
CYC: 3210

Discrepancy/Corrective Action:

1. Increased Accel 1 Click and Increased De-rich 1 dot.
All work Completed IAW RR 10W2

Signed _____ **Jacob Sears AP** _____

N103SU
8/10/2020
ENG S/N: CAE- 835942
Hook Hours: 586.1

ACFT S/N: 210895D
TTAF: 12430.5
ENGTT: 2975.7

Hobbs: 1708.4
TE'S: 7261
CYC: 3213

Discrepancy/Corrective Action:

1. Removed and reinstalled top and bottom engine chip detectors. No defects noted
All work completed IAW RR 10W2

Signed _____ **Jacob Sears AP** _____

MAINTENANCE RECORD

N103SU
S/N: 210895D
ENG. S/N: CAE-835942

Hobbs: 1670.2
AFTT: 12392.3
ENGTT: 2965.5

Date: 7-24-2020
TE's: 7054
CYC: 3201

Installed Engine CAE-835942 (ETT: 2965.5, TSO: 125.5, TC: 3197, CSO: 251) in N103SU, as received from Rauch Performance Turbines. During initial operational checks, Engine Chip Light illuminated. Chips found to be out of limits. **Removed** Engine CAE-835942 (ETT: 2965.5, TC: 3201) from N103SU with all accessories (except Fuel Pump) and sent out for MIO inspection. Removed Fuel Pump SN: T4048, 125.5 TSO, for 3rd party inspection.

All work performed IAW MDHI CSP-HMI-2, and/or RR 10W2.

Signed _____ **Andrew Dale** _____ P

Rolls Royce Engine
P/N: 6887190
S/N: CAE-835942

TT: 2,965.5
TSO: 125.5

Date: 27 Jul 2020
TC: 3,201
CSO: 255

Disassembled CAE-835942 TT: 2,965.5 to facilitate other maintenance in accordance with Rolls-Royce Operation and Maintenance Manual 10W2 6th edition 25th revision dated 01 Jun 2020.

Engine was removed for chip light (metal in oil, upper and lower chip plugs), compressor, gearbox, and turbine inspected on separate work orders.

Removed;

compressor P/N 6890550 S/N CAC-41102 TSO: 125.5 TC: 255

gearbox P/N 6894171 S/N CAG-22613 TSO: 0.0

turbine P/N 23069745 S/N CAT-24587 TSO: 0.0 CSO: 4

Bleed valve P/N 23053176 S/N FF44694 TSO: 0.0

Governor P/N M250-10847 S/N 26138 TT: 0.0

Found fuel pump P/N 6899253 S/N T4048 TSO: 0.0 previously removed

Fuel control P/N 23070606 S/N 322392 TSO: 125.5 and

Fuel nozzle P/N 23077068 S/N 2839 TSO: 103.2

George Matthew Rauch, _____

Date 27 Jul 2020

Rolls Royce Engine
P/N: 6887190
S/N: CAE-835942

TT: 2,965.5
TSO: 125.5

Date: 04 Aug 2020
TC: 3,201
CSO: 255

I certify that this engine, CAE-835942 has been inspected and repaired for chip light (metal in oil, upper and lower chip plugs), in accordance with Rolls-Royce Operation and Maintenance Manual RR 10W2 6th edition 25th revision dated 1 Jun 2020.

Installed;

compressor P/N 6890550 S/N CAC-41102 TSO: 125.5 TC: 255

gearbox P/N 6894171 S/N CAG-22613 TSO: 0.0

turbine P/N 23069745 S/N CAT-24587 TSO: 0.0 CSO: 4

bleed valve P/N 23053176 S/N FF44694 TSO: 0.0

governor P/N M250-10847 S/N 26138 TT: 0.0

fuel control P/N 23070606 S/N 322392 TSO: 125.5 and

fuel nozzle P/N 23077068 S/N 2839 TSO: 103.2

Assembled engine CAE-835942 TT: 2,965.5 TSO: 125.5 TC: 3,201 CSO: 255 as P/N 6887190 in serviceable time continued condition. Further maintenance required, install fuel pump and check run engine in accordance with 10W2 at installation in airframe.

George Matthew Rauch, _____

Date 04 Aug 2020