



AIRFRAME MAINTENANCE RECORDS

Log No. 4

Aircraft Registration No. N56H

Model 414

Serial No. 414-0941

Waco Regional Airport • [REDACTED] Waco, Texas 76708
Phone: [REDACTED]

Date	Total Time In Service	Recording Meter Time
2-17-2017	4317.7	1280.4



RAM Aircraft, Limited Partnership • Waco Regional Airport
Cessna S/N 414-0941 N56H

Above referenced aircraft modified per SA09469SC-D per installation of STC SE09104SC-D 335 HP engines. Installed intercooler scoops. Increased maximum takeoff weight to 6765 lbs. Flight Manual Supplement FM1087 Rev. C installed in aircraft. See 337 and attached form 8110-3 for approval of compatibility with vortex generators previously installed per STC SA5900NM. Installed RAM overhauled engines L-218925-R and R-290672-R and new Hartzell ScimitarPlus propellers, left s/n EB8114B, right s/n EB8093B. Installed RAM FAA-PMA 1719-3 synchrophase system. Installed Shadin Fuel Flow Indicating System per STC SA5796SW-D. Transducer installation per STC SE5726SW-D. Slick pressurized magnetos p/n 6320 installed per STC SE4651SW-D. Installed Alcor range-marked EGT gauge p/n 46158 per STC SA522SW. Replaced left & right engine EGT probes and leads. Installed red silicone impregnated fiberglass baffle material on each engine. FAA-PMA replacement baffles. Installed re-marked tachometer, manifold pressure gauge, airspeed indicators, & 3-in-1 gauges per STC requirements. Install two new static sump bottle p/n S1258-1. Static system tested per FAR 91.411, para A 2. (Leak check of system only.) C/W AD2000-01-16 by removal of the exhaust system from the slip joints aft. Installed the following exhaust system components:

Left Engine	P/N	S/N		Replacement due
Wye	1967-1	I0P07-0001	New	2-2029/6817.7
Left Elbow	9910299-15	Unknown	Re-installed	10-2024/6071.5
Elbow Clamp	2274-60	N/A	New	2-2029/6817.7
Right Elbow	A9910299-16	52649	New	2-2029/6817.7
Elbow Clamp	2274-60	N/A	New	2-2029/6817.7
Wastegate Elbow	1967-3	IZQ49-0006	New	2-2029/6817.7
Wastegate Clamp	2163-1	N/A	New	2-2029/6817.7
Wastegate Tailpipe	1967-7	N/A	New	2-2029/6817.7
Overboard Tailpipe	K9910299-1	Unknown	Re-installed	10-2024/6071.5
Tailpipe Clamp	2274-50	N/A	New	2-2029/6817.7
Left Riser Assy	K9910295-13	252866	New	N/A
Right Riser Assy	9910295-14	244460	Cleaned & Inspected	N/A
Wastegate	470908-9012	JE0348	Re-installed	N/A
Turbocharger	2059-1	DBL40337	Overhauled	N/A
Slip Joints	1001-3	N/A	New	2-2029/6817.7
Right Engine	P/N	S/N		Replacement due
Wye	1967-1	I0P07-0003	New	2-2029/6817.7
Left Elbow	A9910299-15	52646	New	2-2029/6817.7
Elbow Clamp	2274-60	N/A	New	2-2029/6817.7
Right Elbow	A9910299-16	50843	New	2-2029/6817.7
Elbow Clamp	NH1000897-60	N/A	Re-installed	10-2024/6071.5
Wastegate Elbow	1967-3	IZQ49-0009	New	2-2029/6817.7
Wastegate Clamp	2163-1	N/A	New	2-2029/6817.7
Wastegate Tailpipe	1967-7	N/A	New	2-2029/6817.7
Overboard Tailpipe	K9910299-2	Unknown	Re-installed	10-2024/6071.5
Tailpipe Clamp	NH100897-50	N/A	Re-installed	10-2024/6071.5
Left Riser Assy	9910295-13	Unknown	Re-installed	N/A
Right Riser Assy	K9910295-14	242903	Cleaned & Inspected	N/A
Wastegate	470908-9013	IBR0154	Overhauled	N/A
Turbocharger	2059-1	NBL00060	Overhauled	N/A
Slip Joints	1001-3	N/A	New	2-2029/6817.7

Hartzell ASB No. 057 N/A per turbocharger S/N. C/W para (b) by visual inspection and found to be serviceable. Next visual inspection per para (b) due in 50 hours TIS or 30 calendar days, whichever occurs later. C/W para (c) by removal and visual inspection of exhaust tailpipes and found to be serviceable at this time. Next removal and visual inspection per para (c) due each 12 calendar months. C/W para (d) by inspection of the outboard engine beams and canted bulkheads. Installed new right inboard engine mount beam P/N TAM0851121-101 S/N 0130 per Twin Aircraft Mod. Inc instructions and Cessna 414 Service Manual. Re-inspection per para (d) due each 500 hours TIS. C/W para (e) by visual inspection and pressure test of left and right exhaust systems. System checked satisfactory at this time. Re-inspection per para (e) due each 12 calendar months. Para (f) N/A per no multi-segment V-band clamps installed. C/W para (g) by installing new and/or re-installed existing exhaust system from the slip joints aft. Repetitive compliance due at 2,500 hours TIS or 12 years from date of installation, whichever occurs first. AD2008-08-17 n/a to turbochargers installed at this time. Installed new Aeroquip integral firesleeved fuel & oil hoses meeting TSO-C53A Type D and TSO-C75 Type III on each engine. C/W MEB00-9 per installation of vent tube p/n 2530-1 in crankcase breather. Installed new FAA-PMA right propeller cable P/N 1220-16 and both alternate air cables. AD 96-12-22 N/A to oil filter adapter installed. Removed previously installed "Bracket" air filters which are NOT compatible with RAM STC's. C/W AD 84-26-02 per replacement of air filters. RAM Aircraft recommends air filters to be replaced every 300 hours or annual with mandatory log entry required. Installed new Hartzell ALV9610 alternators and new Hartzell regulators p/n R1224B. Installed new cabin pressurization ducts, two P/N CM3211-10B38.0 and two P/N CM3211-10B9.5 in left and right wing stubs. New empty weight and balance computed. Aircraft is approved for return to service for the work performed. Pertinent details on file under project no. 8234.

RAM Aircraft, Lim

SUB-TOTALS this page
TOTALS—Carry forward to next page

Date	Total Time In Service	Recording Meter Time
2-17-2017	4317.7	1280.4



RAM Aircraft, Limited Partnership • Waco Regional Airport

Cessna S/N 414-0941 N56H

Above referenced aircraft inspected and found to be in a safe condition for flight per Special Flight Permit this date. Pertinent details on file under Project No. 8234

RAM Aircraft, Limited



DATE: 03/08/2017
N: 56H
LOG: AIRFRAME
MAKE: CESSNA
MODEL: 414
S/N 414-0941
TACH:
HOBBS: 1287.8
COMP. TIME: 4158.9 TTAF

CONDUCTED 100HR/ANNUAL INSPECTION IAW APPROVED CESSNA 414 INSPECTION GUIDE. REMOVED INTERIOR FROM AIRCRAFT, OPENED ALL INSPECTION PANELS. PERFORMED VISUAL INSPECTION OF AIRFRAME AND ENGINES. LUBRICATED ALL PULLIES, HINGE POINTS, ROD ENDS AND BELLCRANKS. PERFORMED POWER ON CHECKS. SERVICED OXYGEN SYSTEM TO 1800 PSI IAW CESSNA 414 M.M. PLACED AIRCRAFT ON JACKS AND RE-PACKED WHEEL BEARINGS. INSPECTED AND SERVICED BRAKE SYSTEM. PERFORMED LANDING GEAR RETRACT/EXTENSION CHECKS. PERFORMED EMERGENCY EXTENSION. LUBRICATED LANDING GEAR ASSEMBLIES. RIGGED LEFT LANDING GEAR. PERFORMED CRACK INSPECTION USING RED DYE PENETRANT. NO CRACKS FOUND. PERFORMED E.L.T. INSPECTION PER FAR 91.207 (D). ELT BATTERY EXPIRES MARCH 2018. REMOVED/REPLACED SHIMMY DAMPENER BEARING HEAD ORINGS WITH (P/N: MS28775-112) AND (P/N: MS28775-215). SERVICED DAMPENER WITH HYDRAULIC FLUID. INSTALLED SAFETY ON FILLER PLUG. INSTALLED CUP HOLDERS ON SIDE WALLS OF CABIN. CLEANED A/C RECEIVER DRYER AND INSPECTED FOR LEAKS, NONE FOUND.

KIRK A. RAMSEY



DATE: 03/08/2017
N: 56H
LOG: AIRFRAME
MAKE: CESSNA
MODEL: 414
S/N 414-0941
TACH:
HOBBS: 1287.8
COMP. TIME: 4158.9 TTAF

RETORQUED MAP LIGHT SWITCH HARDWARE. REMOVED/REPLACED INOP LOWER BEACON LIGHT WITH NEW STROBE (P/N: 202331). REPOSITIONED CABIN AIR CONTROL KNOBS AND RETORQUED SET SCREWS. RE-INSTALLED ALL INSPECTION PANELS AND INTERIOR. WASHED ENGINE AND COWLING. PERFORMED POST INSPECTION RUN-UP AND LEAK CHECK. NO LEAKS NOTED. RESEARCHED A.D.'S AND UPDATED LOG BOOKS. I CERTIFY THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AT THIS TIME.

END

KIRK A. RAMSEY