

N414RS	Left Engine	Hobbs: 2211.2	TSMO: 3.3	04/03/18
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Removed and reinstalled this engine from LH position N414RS, 414A S/N 821 following overhaul. Engine installed in accordance with Cessna 414A maintenance manual. Reinstalled propeller with new seal in accordance with Hartzell owners manual. Installed overhauled 442CW vacuum pump. Reinstalled all engine accessories with new gaskets and seals as applicable. Serviced engine with 12 quarts Aeroshell 100 strait mineral oil. Rigged all engine controls. Checked and adjusted as required Metered and Un-metered fuel pressures, idle speed and mixture, static RPM. All parameters within limits. Checked all fluid hose torques following ground runs. Performed pressure test to exhaust system and verified all clamp torques following ground runs. Checked AD's to date. See separate listing for compliance details. Engine leak checks good. All work performed in accordance with Cessna 414A service manual, applicable chapters. I certify that this Engine has been inspected in accordance with a 100 Hour/Annual Inspection and was determined in airworthy condition. Approved for return to service.

[Signature]
AP *[Redacted]*

Carson Valley Aircraft Services
[Redacted]
Minden, Nevada 89423

N414RS	Lt Engine	Hobbs: 2234.6	TSMO: 23.4	05/20/18
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Drained engines oil and serviced with 12 quarts Phillips XC 20/50 oil. Installed new CH48108-1 oil filter. Cut old filter and inspected for contaminants. None noted. Engine ground run, ops and leak checks good.

[Signature]
AP *[Redacted]*

Carson Valley Aircraft Services
[Redacted]
Minden, Nevada 89423

N414RS	Lt Engine	Hobbs: 2283.0	TSMO: 71.8	10/01/18
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Drained engines oil and serviced with 12 quarts Phillips XC 20/50 oil. Installed new CH48108-1 oil filter. Cut old filter and inspected for contaminants. None noted. Engine ground run, ops and leak checks good.

[Signature]
AP *[Redacted]*

Carson Valley Aircraft Services
[Redacted]
Minden, Nevada 89423

Photo 2 – Left Engine

Page No. _____

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
PROP MODEL (L) PFC-377, ZUP PROP (SN) (L) FHC296B REG. NO. N414RS WORK ORDER: 6158-07-2014 DEW Aero Mechanical Inc. [Redacted] Addison, Texas 75001 Phone: [Redacted] DATE: 11/16/2014 AVCTSN: 8954 PROP (TT) (L) 1252.9 TSN: 1140.3 HOBBS: 2091.6 Left Prop Entries ADs researched through Avantext Release 2014-19 Maintenance Release I certify the propeller was inspected IAW an approved Federal Aviation Regulations and was found Airworthy for return to service. DATE: 11/16/2014 SIGNED: [Redacted] Work Order: 6158-07-2014 Avantext Release 2014-19 Printed by EB's 3 (datamedia.com)				
N414RS	Left Prop	Hobbs: 2091.6	TSN: 1140.3	11/16/15
Dressed propeller blades and painted blade face as required. Lubricated propeller per Hartzell service instructions. I certify that this Propeller has been inspected IAW a 100 Hour/Annual Inspection and was determined in airworthy condition. Approved for return to service.				
Carson Valley Aircraft Services Minden, Nevada 89423				
N414RS	Left Prop	Hobbs: 2171.9	TSN: 1213.6	11/25/16
Dressed propeller blades and painted blade face as required. Lubricated propeller per Hartzell service instructions. I certify that this Propeller has been inspected IAW a 100 Hour/Annual Inspection and was determined in airworthy condition. Approved for return to service.				
Carson Valley Aircraft Services Minden, Nevada 89423				
N414RS	Left Prop	Hobbs: 2211.2	TSN: 1252.9	04/03/18
Dressed propeller blades and painted blade face as required. Lubricated propeller per Hartzell service instructions. I certify that this Propeller has been inspected IAW a 100 Hour/Annual Inspection and was determined in airworthy condition. Approved for return to service.				
Carson Valley Aircraft Services Minden, Nevada 89423				
SUB-TOTALS this page				
TOTALS—Carry forward to next page				

Photo 3 – Left Propeller

Page No. _____

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACHOMETER RECORDING	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATION NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				

Date	Total Time In Service	Total Time Since Overhaul	Recording Meter Time
6/26/18	4618.8	0.0	

RAM
RAM Aircraft, Limited Partnership • Waco Regional Airport

CONTINENTAL TSIO-520-NB Series IV Right Engine S/N 244794 R

Above referenced engine overhauled to new parts limits per FAR 43.2(a)(1)(2) to conform w/CMI SM X-30574 and Continental M-O, Standard Practice Maintenance Manual. Applicable AD's and Service Bulletins C/W at this time. All gears cleaned, polished when required, inspected, magnetic particle inspected, and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1813, Rev. P dated 07/19/2017. Above referenced engine modified to TSIO-520-NB 325 HP per STC SE4327SW-D Rev 4. Installed new RAM camshaft p/n 1058-1A, s/n XC17078 per STC SE4327SW-D. Installed lifters p/n SA628488 nt, p/n SA546277 exh. AD 10-11-04 n/a to lifter p/n installed. AD 97-26-17 c/w per installation of overhauled VAR crankshaft p/n 649898, s/n G245311N per TCM CSB96-8. C/W ultrasonic inspection per MSB96-10B, due at next overhaul or when crankshaft removed. AD 99-19-01 n/a per crankshaft date of manufacture IAW TCM MSB99-3C. AD 2000-23-21 N/A to crankshaft serial number/date of manufacture IAW TCM Mandatory Service Bulletin MSB00-5D. Engine assembled with overhauled ECI crankcase p/n AEC653923-01, s/n 101616-80. Installed new Superior steel cylinders. Installed new oil cooler p/n 8000440, s/n 40821089. AD 2012-10-13 and MSB11-4B Starter Adapter inspection. N/A per p/n installed. Installed new RAM/FAA/PMA fuel nozzles p/n 2562-14D. TCM Service Bulletin SB06-1A N/A per installation of RAM fuel nozzles. Installed modified connecting rods p/n 1162 per STC SE4327SW-D as FAA-PMA approved replacement. Engine accessories exchanged for overhauled or new units with exception of prop governor, alternator, vacuum pump, hydraulic pump and tach generator which were not installed per this work order. New Slick pressurized magnets p/n 6320 installed per STC SE4651SW-D and pressurized. Service Bulletin SB3-08A N/A to magneto serial numbers installed. SB1-12 Slick Points assy. N/A per S/N. MSB94-8D on magneto timing procedure c/w per timing to STC degree requirements with TDC locator and protractor with pointer. P/N 652130 & 652131 rocker arms installed. Installed RAM FAA-PMA oil cooler baffle p/n 1253-1, rocker arm cover gaskets p/n 1387-1, spring loaded induction clamps p/n 1170-2 and double clamp p/n 1170-5. Category 1 thru 3 CMI Service Bulletin Compliance Listing in RAM Manual. Engine ground run on test stand per RAM specifications for 3 hours. Engine run-in with Aeroshell 100 Mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1 for recommended oils. Engine approved for return to service for the work performed. Engine preserved per Continental M-O, Standard Practice Maintenance Manual temp. storage up to 90 days. Pertinent details on file under Project No 8794.

RAM Aircraft, Limited Partnership [Redacted] Waco, Texas 76708 CRS VA1R551K

N414RS	C414A-821	Hobbs: 2258.9	TSMO: 0.0	08/07/18
Installed this engine in RH position of Aircraft N414RS, Cessna 414A S/N 821. Installed overhauled propeller governor, turbocharger, controller and wastegate. Propeller flashed prior to reinstallation. Serviced engine with 12 quarts Aeroshell 100 strait mineral oil. Established oil pressure prior to initial start-up. Ground run engine and adjusted fuel system IAW TCM SID 97-3F. Adjusted static RPM as required. All work performed IAW Cessna 414A service manual, applicable chapters. Engine ground run, ops and leak checks good. [Redacted] approved for return to service. Carson Valley Aircraft Services [Redacted] Minden, Nevada 89423				

TOTALS—Carry forward to next page

Photo 4 – Right engine

