

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	
	HOURS	10THS
2014		
03/17		

PG. 1. OF 4.

IO540AC1A5
L-30281-48ADATE: 03/17/2014
WORK ORDER: 001289ENGINE TOTAL TIME: 1983.9
ENGINE TSO: 0.0

DISASSEMBLED, CLEANED, INSPECTED AND OVERHAULED ENGINE IDENTIFIED ABOVE IN ACCORDANCE WITH CURRENT LYCOMING OVERHAUL MANUAL, P/N 60294-7 REVISION 13 DATED: 10/2010 AND CURRENT LYCOMING SERVICE BULLETINS, SERVICE INSTRUCTIONS, AND SERVICE LETTERS AS APPLICABLE. COMPLIED WITH **MANDATORY REPLACEMENT PARTS** AS PER SERVICE BULLETIN S/B 240W. INSTALLED THE FOLLOWING NEW PARTS: 6 EACH PISTON COOLING NOZZLES, P/N 73772, OIL PUMP IMPELLER KIT, P/N 05K23463, AS PER SERVICE INSTRUCTION SI-1164B, OIL PUMP BODY P/N 51A22618. **NOTE:** COMPLIED WITH SERVICE BULLETIN S/B 555A TORQUED PLUG. OIL PUMP DRIVE SHAFT, P/N 76784 12 EACH PUSHROD SHROUD TUBE ASSEMBLIES, P/N LW-18944. COMPLIED WITH CURRENT SERVICE INSTRUCTION SI-1458F, AND SI-1307B BY INSTALLATION OF 12 EACH NEW CONNECTING ROD BOLTS P/N LW-12596 AND NEW NUTS, P/N 12186, UNIT TORQUED TO CORRECT STRETCH AS PER CURRENT SERVICE INSTRUCTION SI-1458F. 2 EACH DYNAMIC ROLLERS, P/N 73648, 2 EACH DYNAMIC ROLLERS P/N 76788, 8 EACH RETAINER RINGS, P/N LW-14820, 12 EACH COVERS, P/N 72710, 24 EACH THRUST BUTTONS, P/N LW-11665, 4 EACH CUSHIONS, P/N 68H22624, 2 EACH MAGNETOS, P/N 6351, SN LEFT: 13100476, S/N RIGHT: 13100475, IGNITION HARNESS, P/N M6044, 2 EACH BALL BEARINGS, P/N 67542 COMPLIED WITH SERVICE INSTRUCTION SI-1512 BY INSTALLATION OF UPGRADED 6 EACH MAIN BEARINGS, P/N 18E23886- 2 EACH MAIN BEARINGS, P/N 18B23885-, AND 12 EACH ROD BEARINGS

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PG. 2. OF 4.

P/N 18N26106, 12 EACH TAPPET BODIES, P/N 15B26064, 12 EACH PLUNGERS, P/N 15B26066 CRANKSHAFT GEAR, P/N 13S19648, UNIT INSTALLED USING NEW BOLT, P/N STD 2247, COMPLIED WITH AIRWORTHINESS DIRECTIVE A.D. 2004-05-24C AND LYCOMING MANDATORY SERVICE BULLETIN S/B 554 AND S/B 475CBY INSPECTION OF CRANKSHAFT THREADS AND INSPECTION OF GEAR ASSEMBLY, INSTALLATION OF CORRECT BOLT P/N STD 2247, INSTALLED NEW LOCK TAB P/N LW-18638, UNIT FINAL TORQUE 204 INCH. LBS. AND LOCKTAB LOCKED. 8 EACH DYNAMIC COUNTERWEIGHT WASHERS P/N 71907, AND 8 EACH RETAINING RINGS, PN LW-14820, 2 EACH SPACERS, P/N 74887, 2 EACH SPACERS P/N 77906, 2 EACH THRUST BUTTONS, P/N 72962, IGNITION HARNESS KIT, P/N 01P19762-4-17, OIL TEMP CONTROL VALVE, P/N 53E22144, 4 EACH DRAIN TUBES, P/N LW-18555, 1 EACH DRAIN TUBE P/N LW-185578, 1 EACH DRAIN TUBE P/N 17T19439, OIL PRESSURE RELIEF VALVE, P/N 77808 STARTER, P/N 149-24PM, S/N F4P-361303, FUEL PUMP P/N LW-15473, 12 EACH PUSHRODS, P/N 15F19957-61, 4 EACH INNER CYLINDER BAFFLE ASSEMBLIES P/N LW-18832, FUEL PUMP PLUNGER, P/N 23D26777, 6 EACH CYLINDER AND VALVE ASSEMBLY KITS P/N 05K22672, ACCESSORY GEAR, P/N 72964, GEAR, P/N 72974 IDLER PULLEY BEARING, P/N 78629, NOSE SEAL, P/N LW-15628. INSTALLED THE FOLLOWING NEW FLEXIBLE HOSE ASSEMBLIES: 1 EACH P/N 171F001-4- CR0172, 1 EACH P/N 171F001-4CR0240, 1 EACH P/N 171F005-6CR-0280. INSTALLED THE FOLLOWING OVERHAULED OR REPAIRED PARTS: CRANKCASE, P/N C/N11E20030R/L S/N M/N K0026, UNIT INSPECTED AND REPAIRED AND COMPLIED WITH LYCOMING SERVICE INSTRUCTION SI-1290F BY CRS # H1HR0960, ON WORK ORDER: 21888, DATED: 01/15/2014, CRANKSHAFT P/N 13F37743, S/N AV537936258, UNIT INSPECTED AND REPAIRED AND AIRWORTHINESS DIRECTIVE A. D. 2004-10-14 AND LYCOMING SERVICE BULLETIN S/B 475C COMPLIED WITH BY CRS # UIIR533K, ON WORK ORDER: 174433, DATED: 12/09/2013.

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NATURE,
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PG. 3. OF 4.

CAMSHAFT, P/N, LW19340, UNIT INSPECTED AND REPAIRED BY CRS # UIIR533K, ON WORK ORDER: 171284, DATED: 12/12/2012, 2 EACH COUNTERWEIGHTS, P/N LW-19210, UNIT INSPECTED AND REPAIRED AND LYCOMING SERVICE INSTRUCTION SI-1113 COMPLIED WITH BY CRS # UIIR533K, ON WORK ORDER: 174433, DATED: 12/09/2013.

NATURE,
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ON WORK ORDER: 21888, DATED: 01/15/2014, CRANKSHAFT P/N 13F37743, S/N AV537936258, UNIT INSPECTED AND REPAIRED AND AIRWORTHINESS DIRECTIVE A. D. 2004-10-14 AND LYCOMING SERVICE BULLETIN S/B 475C COMPLIED WITH BY CRS # UI1R533K, ON WORK ORDER: 174433, DATED: 12/09/2013.

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MAINTENANCE RECORD

PG. 3 OF 4.

NATURE,
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CAMSHAFT, P/N, LW19340, UNIT INSPECTED AND REPAIRED BY CRS # UI1R533K, ON WORK ORDER: 171284 DATED: 12/12/2012, 2 EACH COUNTERWEIGHTS, P/N LW-19210, UNIT INSPECTED AND REPAIRED AND LYCOMING SERVICE INSTRUCTION SI-1143 COMPLIED WITH BY CRS # UIR533K, ON WORK ORDER: 174434 DATED: 11/27/2013, ACCESSORY HOUSING, P/N 21C21539-04, UNIT REPAIRED BY CRS H1HR0960 ON WORK ORDER: 11-25-13, DATED: 01/23/2014, 6 EACH CONNECTING RODS, P/N LW-19332, UNITS INSPECTED AND REPAIRED BY CRS # UI1R533K ON WORK ORDER: 174435, DATED: 11/27/2013, 12 EACH ROCKER ARMS P/N 17F22426, UNIT INSPECTED AND REPAIRED BY CRS # UI1R533K, ON WORK ORDER: 174436, DATED: 11/27/2013, FUEL INJECTOR SERVO P/N 2576546-3, S/N 70225003, MODEL: RSA-10ED1, UNIT OVERHAULED AND TESTED AND PERFORMED AIRWORTHINESS DIRECTIVE A. D. 2009-02-03 AND PRECISION AIRMOTIVE MANDATORY SERVICE BULLETIN PRS-107R4 BY CRS # NE2R028L ON WORK ORDER: R13-06225 DATED: 12/11/2013, NOTE: AIRWORTHINESS DIRECTIVE A. D. 2012-03-06 C NOT APPLICABLE PER PART NUMBER OF DIAPHRAM INSTALLED. FLOW DIVIDER P/N 2576624-1, S/N 0274034, UNIT REBUILT AND TESTED BY CRS # PQ0111NM ON WORK ORDER: JO # IE253, DATED: 03/11/2011, 6 EACH AIR BLEED NOZZLE ASSY. P/N 2524864-2 UNITS OVERHAULED AND TESTED BY CRS # NE2R028L ON WORK ORDER R13-06223 DATED: 12/10/2013. COMPLIED WITH AIRWORTHINESS DIRECTIVE A. D. 2011-26-04 AND CURRENT LYCOMING SERVICE BULLETIN S/B 342G DURING INSTALLATION OF FUEL INJECTION SYSTEM. PERFORMED MAGNETIC PARTICLE INSPECTION AND INSTALLED THE FOLLOWING PARTS: 2 EACH IDLER GEAR SHAFTS, P/N LW-13795, GOVERNOR DRIVEN GEAR, P/N LW-10442, GOVERNOR DRIVE GEAR P/N LW-10441, GOVERNOR SUPPORT PIN, P/N LW-14021, 2 EACH MAGNETO GEAR, P/N LW-19096, IDLER GEAR, P/N 71668, IDLER GEAR, P/N 71652, TACH SHAFT, P/N 76155. PERFORMED LIQUID PENETRANT INSPECTION AND INSTALLED THE FOLLOWING PARTS: ENGINE MOUNT BRACKET P/N, 12A22201

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MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		NATURE, TYPE
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2014 03/17			PG. 4. OF 4. ENGINE MOUNT BRACKET, P/N 12A22202, ENGINE MOUNT BRACKET, P/N 12A22233, ENGINE MOUNT BRACKET, P/N 12A22234. ASSEMBLED ENGINE USING ALL NEW PACKINGS AND GASKETS. ALL WORK PERFORMED IN ACCORDANCE WITH CURRENT LYCOMING DIRECT-DRIVE OVERHAUL MANUAL, P/N 60294-7, REVISION 13 AND APPLICABLE CURRENT LYCOMING SERVICE BULLETINS, SERVICE INSTRUCTIONS AND SERVICE LETTERS. INSTALLED ENGINE ASSEMBLY ON CUSTOMER FURNISHED TEST STAND FOR OPERATIONAL AND LEAKAGE TEST. PERFORMED OPERATIONAL AND LEAKAGE TESTING AS PER LYCOMING TEST SCHEDULE, SATISFACTORY RESULTS. POST OPERATIONAL TESTING REMOVED AND INSPECTED OIL FILTER, AND OIL SUCTION SCREEN, NORMAL RESULTS. POST TEST SCHEDULE PERFORMED CURRENT LYCOMING SERVICE LETTER L-180B INACTIVE ENGINE PRESERVATION PROCEDURES. NOTE: FOR ADDITIONAL INFORMATION ON AIRWORTHINESS DIRECTIVES SEE AIRWORTHINESS DIRECTIVE COMPLIANCE RECORDS THIS LOG BOOK. THE ENGINE ASSEMBLY IDENTIFIED ON PAGE 1. OF PAGE 4. DATED: 03/17/2014 WAS INSPECTED AND REPAIRED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE F. A. A. AND IS APPROVED FOR RETURN TO SERVICE WITH RESPECT TO WORK PERFORMED. FOR DETAILS OF WORK PERFORMED SEE COMPANY WORK ORDER: 001289.-----END-----

ALLIANCE AVIATION OPERATIONS CENTER

FT. WORTH, TEXAS

76177-5300

CRS # R29R0290

SIGNATURE: 

Alliance Aviation
Operations Center
CRS R29R0290

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		