

ENGINE DESCRIPTION

MANUFACTURER

LYCOMING

MODEL

AE10-540-EXP

SERIAL NUMBER

L-52636-08E

DATE OF MANUFACTURE

RATED BHP

RPM

MANIFOLD PRESSURE

FUEL REQUIRED OCTANE/PERFORMANCE

REGISTERED OWNER

STREET NO.

CITY, STATE, ZIP

REGISTERED OWNER

STREET NO.

CITY, STATE, ZIP

AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

| A.D./BULL. NUMBER | ITEM AFFECTED | DATE & HRS. AT COMP. | METHOD OF COMPLIANCE | TYPE OF A.D. 1 TIME/RECUR. | NEXT COMP. DATE/HRS./CYCLE | AUTHORIZED SIGNATURE CERTIFICATE NO. |
|-------------------|---------------|----------------------|----------------------|----------------------------|----------------------------|---|
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AD COMPLIANCE LIST = LYCOMING AEIO-540-EXP S/N L-52636-08E

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|-------------|--|
| 2008-14-07 | COMPLIANCE IAW LYCOMING MSB 342E, DIAGRAM # 17 |
| 2008-08-14 | N/A BY INJECTOR MODEL IAW THIS AD |
| 2006-12-07 | N/A BY CYLINDER MANUFACTURER IAW THIS AD |
| 2006-10-21 | N/A BY CONNECTING ROD MFG IAW THIS AD |
| 2005-19-11 | N/A BY CRANKSHAFT S/N IAW LYCOMING MSB 566 |
| 2004-10-14 | COMPLIANCE BY C'SHAFT GEAR/BOLT P/N IAW MSB 475C |
| 2004-05-24 | COMPLIANCE BY CRANKSHAFT BOLT IAW LYC MSB 554 S5 |
| 2003-14-03 | N/A BY FUEL PUMP TYPE IAW THIS AD |
| 97-15-11 | N/A BY PISTON PIN MANUFACTURER IAW LYC MSB 527C |
| 96-23-03 | N/A BY FUEL PUMP MFG DATE CODE IAW THIS AD |
| 95-07-01 | N/A BY ROD BOLT P/N IAW SAP SB 95-002 |
| 92-12-05 | N/A BY PISTON PIN MANUFACTURER IAW LYC SB 501 RB |
| 87-10-06 R1 | N/A BY ROCKER ARM P/N IAW LYCOMING SB 477A S1 |
| 79-04-05 | N/A BY FUEL INJECTOR MODEL IAW THIS AD |
| 78-23-10 | N/A BY FUEL INJECTOR MODEL IAW THIS AD |
| 73-23-01 R4 | N/A BY PISTON PIN MFG IAW LYCOMING SB 367F |
| 81-16-05 | N/A BY MAGNETO MODEL IAW THIS AD |
| 80-06-05 | N/A BY MAGNETO MODEL IAW THIS AD |
| 74-18-05 | N/A BY MAGNETO MODEL IAW THIS AD |

INSPECTION & MAINTENANCE RECORD

| DATE | TOTAL TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO. |
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LYCOMING AEIO-540-EXP S/N L-52636-08E MAJOR ENGINE OVERHAUL IAW MANUAL # 60294-7-9 WITH THE FOLLOWING PARTS INSTALLED: 1EA 11E24100-S CRANKCASE I.D.# K1027, 1EA 13E47622 CRANKSHAFT S/N V537952975, 1EA 15N23373 CAMSHAFT, 6EA 05K21104 CYLINDER ASM, 1EA 6355 MAGNETO S/N 08051442, 1EA 6350 MAGNETO S/N 08060980, 1EA M6001 HARNESS, 1EA FM-300 P/N 5030040 FUEL INJECTOR SERVO S/N 20831657, 1EA 2524232-2 FLOW DIVIDER S/N 0285746, 6EA 2524864-2 FUEL INJECTOR NOZZLES, 1EA LW-15473 FUEL PUMP S/N 2408, 1EA SD-8 ALTERNATOR S/N 0881073, 1EA BCS206-149 STARTER S/N 21510808, 1EA APS12098-140 FUEL LINE, 1EA APS12098-110 FUEL LINE, 1EA APS12098-200 FUEL LINE, 1EA APS12098-220 FUEL LINE, 1EA APS12098-230 FUEL LINE, 5EA 73136 BRACKET, 2EA LW-25-1.88 BOLT, 1EA MS20823-4 ELBOW, 4EA AN791-2 UNION, 2EA STD-148 NIPPLE, 4EA STD-82 SCREW, 15EA STD-860 SCREW, 15EA MS21044N3 NUT, 1EA MS35489-19X GROMMET, 10EA LW-16266-10-75 CLAMP, 11EA LW-16266-10-13 CLAMP, 1EA VAC-2/6 INVERTED OIL PICK UP, 2EA MS20823-8 ELBOW, 1EA 69106 COVER, 1EA 62417 PLUG, 4EA 31C-16 STUD, 1EA 60422 SCREEN, 6EA AEL14077-1 PISTON PIN, 1EA STD-1211 PLUG, 6EA 73346 INTAKE FLANGE, 7EA 75061 CONNECTING ROD BOLT, 5EA 75061 CONNECTING ROD BOLT, 12EA LW-12186 NUT, 6EA 61247 ROCKER COVER, 12EA 15G23461 SHROUD TUBE, 4EA 75339 BAFFLE ASM, 1EA LW-16471 SUPPORT ASM, 12EA 15F19957-31 PUSH ROD, 2EA LW-19227 COUNTERWEIGHT, 2EA 72797 ROLLER, 2EA 72965 ROLLER, 8EA LW-14820 RET RING, 8EA 71907 WASHER, 1EA 71569-1 GASKET SET, 12EA 18M19389-M03 BEARING, 12EA LRT23381 ROLLER TAPPET, 1EA 21C21539-02 HOUSING ASM, 1EA 78531 OIL PUMP BODY, 1EA 74641 OIL PUMP SHAFT, 1EA 05K19423-S OIL PUMP IMPELLER KIT, 3EA STD-1420 NUT, 1EA 25C-10 STUD, 1EA 61544 PLUNGER, 1EA LW-14021 PROP GOVERNOR SHAFT, 1EA LW-10541 GEAR ASM, 1EA 73250 WASHER, 1EA AN565B1032H5 SET SCREW, 1EA 13S19647 CRANKSHAFT GEAR, 2EA 18A19441 BEARING, 6EA 18D23135 BEARING, 1EA LW-13896 PLUG, 8EA 76220 STUD, 1EA AN6-34A BOLT, 120EA STD-8

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LY-CON REBUILDING CO. [REDACTED]

Visalia, CA 93291 [REDACTED]

INSPECTION & MAINTENANCE RECORD

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WASHER, 10EA LW-25-1.50 BOLT, 100EA STD-160 WASHER, 36EA STD-475 WASHER, 30EA STD-35 WASHER, 6EA LW-25S1.50 BOLT, 6EA STD-2249 NUT, 4EA LW-31-1.16 BOLT, 1EA LW-31-2.75 BOLT, 18EA STD-596 NUT, 18EA STD-678 WASHER, 1EA STD-872 NUT, 2EA LW-13795 SHAFT, 1EA 76155 SHAFT ASM, 3EA LW-31H0.88 BOLT, 1EA STD-2168 NUT, 1EA STD-2247 BOLT, 7EA STD-1339 PLUG, 16EA 1102 PLUG, 2EA LW-25-1.75 BOLT, 1EA 71651 FITTING, 1EA 53E22144 VERNATHERM VALVE, 2EA 74887 SPACER, 2EA 77906 SPACER, 2EA STD-1882 SCREW, 6EA STD-684 NIPPLE, 2EA LW-19096 GEAR ASM, 1EA 73000 MAG COUPLING, 4EA 68H22624 CUSHION, 12EA 78290 PLUNGER ASM, 12EA 15B21319 SOCKET, 9EA LW-25-1.00 BOLT, 28EA STD-2090 NUT, 24EA 383-B NUT, 6EA LW-13790 SHAFT, 4EA 71610 HOOK, 4EA 71611 RETAINER, 1EA 68759 TUBE ASM, 1EA 71737 TUBE ASM, 6EA STD-1821 HOSE, 12EA LW-15592-5-05 CLAMP, 12EA 01L23459 WASHER, 12EA LW-12892 THRUST BUTTON, 36EA STD-1925 SCREW, 1EA 1028-B BALL, 12EA LW-25-1.25 BOLT, 1EA STD-784 PLUG, 9EA LW-25-0.94 BOLT, 2EA LW-25-1.13 BOLT, 42EA STD-1411 NUT, 19EA STD-1410 NUT, 24EA STD-33 WASHER, 17EA LW-25-1.25 BOLT, 1EA NFSL-9902 OIL PSI HOUSING, 12EA REM38E SPARK PLUG, 1EA 69510 SCREEN HOUSING, 1EA 62817 SCREEN ASM, 6EA 77611 GASKET, 1EA LW-11713 OIL PSI SPRING, 1EA MS20823-4 ELBOW, 6EA LW-11750 ROD ASM, 6EA LW-11750 ROD ASM, 1EA 71668 GEAR ASM, 1EA LW-10442 GEAR PROP GOV, 1EA 71652 GEAR ASM, 2EA 60803 STRAP LIFTING, 1EA 72974 GEAR ASM, 1EA 71596 WASHER, 4EA 68761 TUBE ASM, 12EA 17F19357 ROCKER ASM, 4EA 72307 U/S ENG BRACKET-SERVICEABLE, 6EA L-410C 10:1 COATED PISTON. PORT MATCH & FLOW BALANCE CYLINDERS. TEST RUN 2 HOURS. COMPLIED WITH PERTINENT A.D'S & S.B.'S. ALL INFORMATION ON FILE AT LY-CON REBUILDING CO. REFERENCE WO 52636.

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LY-CON REBUILDING CO. [REDACTED]

Visalia, CA 93291 [REDACTED]

INSPECTION & MAINTENANCE RECORD

| DATE | TOTAL TIME | INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO. |
|----------------|----------------------------|--|
| MARCH 11, 2009 | TACH READS "0" TOTAL TIME | |
| | | THIS ENGINE INSTALLED IN MXS N21MX, SERIAL NUMBER 008 ON THIS DAY. |
| | | [REDACTED] |
| | | GEARY S. MONCKTON A&F [REDACTED] |
| 3-14-09 | Tach reads 9.9 Total Time | Changed oil with Shell 100 N0W DET [REDACTED] A:P [REDACTED] |
| 3-27-09 | Tach reads 49.8 Total Time | Changed oil with Shell 100W and filter with CA48109 [REDACTED] A:P [REDACTED] |

INSPECTION & MAINTENANCE RECORD

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|------|------------|---|
| | | |

N21MX TACH-225.52 TSMO- 225.52
MODEL- AEIO-540-EXP S/N- L-52636-08E

Aeromechanix
2898 MONTECITO ROAD - RIVINGTON, CA

DRAINED OIL/REMOVED FILTER AND INSPECTED. OIL SAMPLE WAS TAKEN FOR ANALYSIS. SERVICED WITH 11QTS OF AEROSHELL 15W50 AND INSTALLED NEW FILTER P/N CH48108-1 DIFFERENTIAL COMPRESSION TEST: #1 77/80 #2 79/80 #3 76/80 #4 77/80 #5 78/80 #6 77/80. SERVICED ALL SPARK PLUGS. CHECKED MAGNETO TIMING. SERVICED PRE FILTER, GASOCOLATOR & INJECTOR INLET FILTERS. WASHED ENGINE & COMPARTMENT. REPLACED INJECTOR LINE CLAMP. REPLACED #1 & 4 EXHAUST SLIP JOINT HARDWARE, ADDED SHIMS AND RETORQED ALL SLIP JOINT HARDWARE TO COMPENSATE FOR WEAR. SAFETIED SUMP DRAIN FITTING. RE-RIGGED MIXTURE CONTROL AND INSTALLED NEW HARDWARE. RESET ALL APPLICABLE HARDWARE AND CLAMP TORQUES TO SPECS. REPLACED ENGINE SHOCK ISOLATOR MOUNTS P/N 94016-44. PERFORMED CHADWICK HELMUTH PROPELLER BALANCE- INITIAL READING OF .63 IPS REDUCED TO .01 IPS. GROUND RUN AND LEAK CHECK SATISFACTORY.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL/CONDITIONAL INSPECTION, AND WAS DETERMINED TO BE IN A WORTHY CONDITION.

FRANCISCO JIMENEZ A&P [REDACTED]

DATE: 03/05/2011

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N21MX**TACH:254.3****DATE:07/26/11****ICE RECORD**

DRAINED OIL, INSPECTED & CLEANED OIL SCREEN, REPLACED OIL
FILTER P/N CH481 SERVICED WITH 12 QTS. AEROSHELL W15/50.
CLEANED, TESTED, GAPPED & ROTATED LOWER SPARK PLUGS.
WASHED ENGINE & COMPARTMENT, INSPECTED ALL CONTROL
CABLES, EXHAUST, HOSES, ENGINE MOUNTS & STRUCTURE.

FOR MAINTENANCE PERFORMED
AGENCY & CERTIFICATE NO.

AEROMECHANIX/SAN DIEGO CA.

N21MX**TACH:311.8****TSMO:311.8****DATE:03/30/12**

DRAINED OIL, REPLACED FILTER CH48108-1. OIL SAMPLE TAKEN. SERVICED ENGINE WITH 12 QTS AERO-SHELL
W15/50 OIL. CLEANED, GAPPED, TESTED & ROTATED SPARK PLUGS, SERVICED INJECTOR BODY INLET FILTER.
ADJUSTED MAG TIMING. PERFORMED DIFF. COMPRESSION TEST.
#1=78/80 #2=74/80 #3=78/80 #4=72/80 #5=78/80 #6=71/80

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL CONDITION
INSPECTION, AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

DA