



Date: 08-04-05 **Hobbs:** 69.0 **Reg. No.:** N195SD
Eng. Model: TIO-541-E1C4 **Eng. S/N:** L-1524-59
TTE: 2107.5 **SMOH:** 000.0

Engine Major Overhaul

Completed engine major overhaul this date in reference to Lycoming overhaul manual 60294-6, parts manual PC-120, and all applicable service bulletins, letters and instructions. This engine has been overhauled to factory new fits and limits. Firewall Forward Technologies, LLC camshaft (Centri-Lube) installed per STC SE01436LA. See FAA form 337 this date. Crankcase overhauled/certified, crankshaft overhauled/certified, counterweights reworked, connecting rods align bored, and Lycoming factory new cylinder assemblies installed. Engine accessories were overhauled/ exchanged or new as follows: ignition harness, Champion massive spark plugs, magnetos, starter, generator, fuel system, turbocharger, wastegate, controller, p.r.v., tach generator, oil cooler, and various exhaust pieces. Maintenance release tags and list of C/W A.D.'s provided. Engine dynamometer tested in accordance with Lycoming's overhaul manual and is approved for return to service. For complete details concerning this overhaul, refer to work order #2500-05-2005 on file at this overhaul facility. END.

Mark E. Seader
 CRS No. PP5R127N

Firewall Forward, Inc.
Loveland, CO 80538

Firewall Forward - Loveland, Colorado - (800) 444-0556 - www.firewallforward.com

FIREWALL FORWARD

Date: 08-04-05 **Hobbs:** 69.0 **Reg. No.:** N195SD
Eng. Model: TIO-541-E1C4 **Eng. S/N:** L-1524-59
TTE: 2107.5 **SMOH:** 000.0

LIST OF AD's COMPLIED WITH AT ENGINE OVERHAUL

AD #	ITEM AFFECTED	METHOD OF COMPLIANCE	ONE TIME	NEXT INSP. DUE
73-23-01R4	Piston Pins	N/A by new pins @ O/H		
78-23-10	Servo	N/A by parts list no.		
79-04-05	Servo	N/A by model no.		
83-22-04	Servo	C/W by O/H	XXX	
91-08-07	Fuel Pump Vent	C/W para (b), (1-4)	XXX	
92-12-05	Piston Pin	N/A to new pins @ O/H		
93-02-05	Superseded by 2002-26-01			
95-07-01	Rod Bolts	N/A by bolt vendor/date		
97-01-03	Superseded by 97-15-11			
97-15-11	Piston Pin	N/A to new pins @ O/H		
98-18-12	Superseded by 2003-14-03			
2000-18-53	Superseded by 2002-12-07			
2002-12-07	Oil Filter Plate	N/A by installed gasket P/N:06B23072		
2003-14-03	Fuel Pump	N/A by modified pump		

Checked through Rev. 2005-15

Firewall Forward, Inc.
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Reg. No.: N195SD
 P. S/N: L-1524-59
 : 000.0

ENGINE OVERHAUL

ONE TIME NEXT INSP. DUE

CO/H

XXX
 XXX

CO/H

date

CO/H

Part P N 06B.23072

1 pump

Firewall Forward, Inc.
 Loveland, CO 80538

YEAR DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
2005 8-19-05	698		2108.8	INSTALLED OVERHAULED ENGINE IN RIGHT POSITION ON N195SD B60 SN P-494. SERVICED WITH AEROSHELL 15W50 OIL. MADE IDLE SPEED AND IDLE MIXTURE ADJUSTMENTS. FLOWN A/C TWO FLIGHTS WITH PROPELLER FEATHERING ON ROLL OUT. REMOVED GOVERNOR TO TEST PROPELLER OIL CONTROL LEAK PER LYCOMING INSTRUCTION # 1462A, AND FOUND 3 PSI HOLDING PRESSURE. END
				MAGS-C-1135 DATE 8/19/05 HRS 69.8 AM N10 * AUTOPILOTS, CENTRAL, INC. TULSA, OK 74115 SIGNATURE <i>Paul J. Stubb</i> FAA 65827ATK

are equivalent.
acceptable documents.

... installer before the aircraft

YEAR	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Entries must be endorsed with Name, Rating and Certificate of Technician or Repair Facility. (See back pages for other types)
				<p>Date: May 02, 2006 N195SD SN: P-494 Aircraft TT: 2146.3 Tach/hobbs: 107.3 Lycoming Model TIO-541-E1C4 SN L1524-59, TSOH: 53 L/H Performed oil change service to engine. Drained engine oil and installed New oil filter PN: CH48103-1. Serviced engine with 12 quarts of Aeroshell 15W-50 oil. Operational And leak check proved to be satisfactory. This engine returned to service.</p> <p><i>Lee R. Snider</i> Lee R. Snider A&P 549356848 IA</p>
				<p>Date: 5/17/2006 Aircraft: N195SD SN: P-494 Aircraft TT: 2177.0 Hobbs: 138.0 Lycoming TIO-541-E1C4 S/N: L1524-59 TSMOH: 83.7 Removed existing fuel flow transducer. Installed Shadin 680501B fuel flow transducer S/N 123992 and interfaced with new Shadin Digiflo fuel flow indicator. Work performed as per STC SA545GL. See form 337 this date.</p> <p><i>Peter Davidson</i> Peter Davidson A&P2812610</p>

Alterations
 Number of
 specific entries.)

Blank lines for recording alterations.

01/12/2005
 Prop Time
 98.4
 96.5

... of ... Inc.
 ... (C) 80538



YEAR 2006 DATE 1	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
12-26-06	200.7 2739.7	H/A ACTT	131.8 TSC/H	<p>CHANGED OIL AND FILTER, (OIL OVEN OIL FILTER AND FOUND CLEAN. SERVICED) WITH AERIALHELL (5W50 OIL. CW 100 HZ INST. TESTS PER BEECH MISS. FORM. (COMPRESSIONS #1-74, 2-76, 3-74, 4-74, 5-68 & 6-74 OVER 80. TAKEN OIL SAMPLE REPLACED #1 CYL OIL DRAIN BACK TUBE, REPLACED EXHAUST ADAPTERS P/N 77930 ON CYLS # 3 & 4.</p> <p>I CERTIFY THIS <u>Engine</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100 HZ</u> INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION THIS DATE W/O # <u>MA16-0175E</u> DATE <u>12/26/06</u> HRS <u>131.8 TSC/H</u> SIGNATURE <u>[Signature]</u> AUTOPILOTS CENTRAL, INC. TULSA, OK 74115 FAA CRS CM2R747K</p> <p>Hobby Replaced at 221.6</p>

Autopilot Central, Inc.
Loveland, CO 80538

YEAR	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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YEAR	DATE
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TSMOH. 130.0

	A.I.R. Aircraft Inspection & Repair LLC R.L. Jones Airport (RVS)-Tulsa, Oklahoma 74132 (918)296-0901			ENGINE RIGHT
	W/O#: 9.108 REG. # N195SD S/N: P-494			T. TIME: 2283.8 HOBBS: 28.2
CYLINDER COMPRESSIONS: # 1: 77/80, # 2: 76/80, # 3: 77/80, # 4: 77/80, # 5: 76/80 # 6: 78/80. CHANGED OIL & OIL FILTER. SERVICED ENGINE WITH PHILLIPS XC 20 W 50. CLEANED, TESTED & GAPPED SPARK PLUGS. CHANGED INDUCTION AIR FILTER IN ACCORDANCE WITH AD 84-26-02. ADJUSTED MAGNETO TIMING. REPLACED VACUUM PUMP WITH OVERHAUL/EXCHANGE SERIAL # 56178. WASHED ENGINE, GROUND RUN LEAK CHECKED OK. <u>I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION, AND HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION THIS DATE.</u>				
DATE: 1.30.2008		 BARRY BREDENSTEINER/2793773 AP/IA		

Loveland, CO 80538