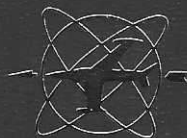


2



The Standard

ENGINE LOG

2 PRIOR TO N52908

ASA-SE-1

Engine Record General Information

Manufacturer Lycoming Model IO 360 A3B6

Serial L-28082-51A Type Certificate _____

This engine is currently installed in aircraft N 531DB

Minimum Octane Fuel _____ Oil Grade: Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer recommended overhaul at _____ hours

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.)
April 30 2002	D 1040.3	10th		Compression 173/80 2 73/80 3 76/80 4 75/80 changed oil Aeroshell 15 W50 - Changed oil filter CH48103 No metal found in old filter - Cleaned and gapped spark plugs - Cleaned Fuel Nozzles and Re installed same C/W AD 930205 - CLEAN Fuel Servo Screen - Check Exhaust to be OK New BA 6210 Air Filter Assy. installed New Alternator ground strap installed Check Magnets to be OK AT 20°.

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.)
				<p><i>Repair cowl stiffener AS Needed</i></p>
				<p>I hereby certify that this (Airframe) has been thoroughly inspected as per existing (Engine) F.A.R.'s in accordance with an (Annual) inspection and found to be in an Airworthy (100 hr.)</p> <p>Condition Tach Time <u>1040.3</u> Hrs. A/C Total Time <u>22130</u> Hrs. T.S.M.O.H. <u>1041.6</u> Hrs. Engine Total Time <u>10416</u> Hrs. Date of Prop O.H. <u>12-2001</u> Time S.P.O.H. <u>124.3</u> Hrs. Next Annual Inspection Due <u>April 2003</u> <u>April 30 2002</u> <u>Willmar Air Service</u> <u>980628281</u> Date Signature and License Number Willmar Air Service, Inc. Willmar, MN </p>

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.)
17 May 2002				Tach Reads 1060.2 Installed New Sky-Tec Model 149-12LS Starter. Installed new CHT Probe. Run-up and opps Check OK Brennigel ACP471130665
May 23, 2002				Tach 1063.1 Installed a 9H. Alternator S/N A-161192 Opps tested. Joe E. Neal ACP472803013
JUNE 6, 2002				Tach 1078.3 Oil + Filter change. Drained oil Installed 89TS Aeroshell 15W50 + new CH48110 Filter. Cut + Inspected old Filter. NO Ferrous metal Found. Ground Run checked O.K. Phil Bank ACP477781255.

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.)
JULY 10, 2002	10, 2002	TAM	112:0	CHANGED OIL & FILTER. INSTALLED 8 QTS OF AMESBELL 15W50 AND A NEW CH48/110 OIL FILTER. CUT & INSPECTED OLD FILTER. NO FERRUS METAL FOUND. PERFORMED GRAND RUN-UP. NO OIL LEAKS NOTED. PAC L JELK A4977781355
JULY 19, 2002	19, 2002	BUSH		INSPECTION: COMPRESSION CHECK AS FOLLOWS: #1 78/80 #2 69/80 #3 78/80 #4 76/80. CHANGED OIL & FILTER. INSTALLED NEW CH48/110 FILTER + 8 QTS AMESBELL 15W50. CUT & INSPECTED OLD FILTER. CHECKED NORMAL. INSTALLED NEW BA-6205 AIR FILTER. CHECKED MAG TO ENGINE TIMING, SERVICED SPARK PLUGS. INSTALLED NEW PLUG ON #2 TOP. DRESSER DRP, and INSPECTED #3, BLADES, SPINNER and BULKHEADS. C/W AD93-02-05, LYCOMING FUEL INJ. L205. ALL LINES & CLAMPS CHECK O.K. GRAND RUN-UP CHECKED O.K. <div style="text-align: right; margin-top: 10px;"> JESER </div>

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.)
				I hereby certify that this (Airframe) (Engine) has been thoroughly inspected as per existing F.A.R.'s in accordance with an (Annual) (100 hr.) inspection and found to be in an Airworthy Condition
	1142.4			Hrs. A/C Total Time <u>736.1</u> Hrs.
	1144.7			Hrs. Engine Total Time <u>1144.7</u> Hrs.
		12-20-01		Time S.P.M.M. <u>2274</u> Hrs.
				Next Annual Inspection Due <u>April 2003</u>
	7-19-02			Signature and License Number
				Signature: <u>Willmar, MN</u>

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.)
SEPT. 19, 2002	100 hr #2 73/80 #3 76/80 #4 77/80	100 hr Inspection completed.	COMPRESSION CHECK AS FOLLOWS: #1 73/80	#2 73/80 #3 76/80 #4 77/80. CHANGED OIL + FILTER. INSTALLED NEW C145110 FILTER + 8QT'S Aeroshell 15W50. OIL AND INSPECTED OIL FILTER. CONTENTS CHECKED NORMAL. SERVICED SPARK PLUGS. REPLACED ALL 4 TOP PLUGS WITH NEW REMISEE PLUGS. CLEAN ADJUSTMENT, EXAMINED FUEL INJECTION LINES, ALL LINES & CLAMPS CHECK OK. INSTALLED NEW BA-6205 AIR FILTER. CHECKED MAGNETO TIMING. INSPECTED ALTERNATOR + STARTER. INSPECTED ENTIRE EXHAUST SYSTEM. ENGINE WAS WASHED AND RUN-UP CHECK COMPLETED → OVER →
SEPT. 27, 2002	1146.5	REPLACED	ALTERNATOR	WITH OVERHAULED UNIT PART # ALY 8520, SN A-170415. OPS CHECK OK. PALM SPRING APT 1716255

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.)
Oct 2 2002		Tach	1266.9	hrs. oil and filter changed 8 qts Aeroshell 15-50. New CH45110. No metal in old filter Engine Runup Complete Jim EAD ACP4220013
12 Nov 2002		Tach	1300.4	Changed oil and filter. serviced with 8 qts Aeroshell 15W-50 and CH45110 filter. Cut and inspected old filter no metal found. Run-up and leak c/k OK Brian YC ACP471130665

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.)
Dec. 11, 2002	100 hr	Inspection	completed	compression check AS follows: #1 76/80 #2 74/80 #3 74/80 #4 76/80. changed oil & Filter. Installed new C148110 Filter & 8QTS Aeroshell 15W50. (Q.T. + Inspected) OIL Filter. contents check o.k. Removed WINGS FOR sochr Insp. REPAIRED CONTACTS, Inspected, Internally Timed, Inspected Turbine coupling on Ltt Internally Timed and Reinstalled & Timed to engine. Installed new Bafco's Induction Air Filter, REPAIRED All bottom spark plugs. Inspected entire exhaust system, Inspected Propeller, Spinner & Backbands. All check o.k. DRESSED Prop BLADES. Chw AD 93-02-05, LYcoming FUEL INT. Lines. All Lines & clamps check o.k. WASHED engine & LOADED controls. Ground Run checked normal. over →

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.)
13 Feb 2003		Tach 1366.4		Changed oil and filter, serviced with 8Qts Aeroshell 15W-50 and CH48110 filter. Cut and inspected old filter no metal found. Run-up and leak c/k OK Brian Nyn ACP471130665
26 March 2003		Tach 1395.1		Changed oil and filter, serviced with 8Qts Aeroshell 15W-50 and CH48110 filter Cut and inspected old filter no metal found Run-up and leak c/k OK Brian Nyn ACP471130665

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.)
25 April 2003				<p>100 hr Inspection Complete. Compression as follows 1 7/8/80 @ 7/80. 3 7/80 4 7/80. No oil and filter change. Checked Mag timing. Cleaned and Gapped Spark Plugs. Cleaned servo screen. Installed new BA-6205 Air filter. Inspected Exhaust. Inspected Alternator and starter. Installed new Baffle Spring Left side. Inspected fuel Nozzle lines as per AD 2002-26-01. Run-up and leak c/k OK</p> <p style="text-align: right;">Brim Nyl A&P 471130665</p> <p style="text-align: right;">OVER →</p>

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.)
				<p>I hereby certify that this (Airframe) (Engine) has been thoroughly inspected as per existing F.A.R.'s in accordance with an (Annual) inspection and found to be in an Airworthy (100 hr.) Condition Tach Time <u>1449.0</u> Hrs. AAC Total Time <u>7621.7</u> Hrs. T.S.M.O.H. <u>1450.3</u> Hrs. Engine Total Time <u>1450.3</u> Hrs. Date of Prop O.H. <u>12-01</u> Time S.P.O.H. <u>533.0</u> Hrs. Next Annual Inspection Due <u>25 April 2003</u> <u>Brain M</u> <u>AeD471130665</u> Date Signature and License Number Willmar Air Service, Inc. Willmar, MN </p>

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.)
5/9/03	Tach	1471.0	8 Qts	changed oil and filter. serviced with Aeroshell 15W-50 and Champion CH48110 filter. cut and inspected old filter no metal found. Run-up and leak OK Brian M ACP471130665
JUNE 13, 2003	TACH	1502.9	8 QTS	changed oil + filter. Installed 8 QTS Aeroshell 15W-50 and new CH48110 Filter. cut + inspected old filter. checked oil. Ground Run checked o.k. Jim Bel ACP471281355
JUNE 30, 2003	TACH	1533.0	8 QTS	changed oil + filter. Installed 8 QTS Aeroshell 15W-50 and a new CH48110 Filter. cut + inspected old filter. contents checked OK. Ground Run checked o.k. Jim Bel ACP472281355

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.)
5 August 2003		Tach	1580.1	changed oil and filter. serviced with 8QTs Aeroshell AW-5 and CH48110 filter cut and inspected old filter no metal found. J. E. Del April 71130665
Sgt 6, 2003		Tach	1580.1	changed oil and filter Sgt Aeroshell 15-50 CH48110. No metal in old filter Run up Completed J. E. Del April 71130665

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.)
10-3-03	Tch	1646.9	100	H/M Insp As follows AD 2002-26-01 Lvc fuel FMS Lines, Insp Lines for cracks and security, No Defect Noted. A.D. 2003-1403 Low Pressure Battery fuel pump DKA Not Installed. Compression #1 76/80 #2 73/80 #3 54/80 #4 72/80 Drain work, Service with 8 pts Aeroshell 15W-50 Re removed filter Installed CH48110 filter, cut open old filter No metal found. Checked mag timing to 20° BTDC, cleaned and Insp Rotated plugs changed 3 plugs PNBEM38E. Installed New M-674 gaskets Insp starter and Alternator, cleaned Fuel send screen, changed Air filter PNBAB205. Insp Exhaust system, Insp Prop Hub and Blades Rechecked Blades and painted Bases of Blades Over

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.)
DATE				Engine was washed, Lube controls and Run up complete.
				I hereby certify that this (Airframe) has been thoroughly inspected as per existing (Engine) F.A.R.'s in accordance with an (Annual) inspection and found to be in an Airworthy (100 hr.)
				Condition Tach Time <u>1646.9</u> Hrs. A/C Total Time <u>7099.6</u> Hrs.
				T.S.M.C.H. ^{REC'D} <u>1646.9</u> Hrs. Engine Total Time <u>1646.9</u> Hrs.
				Date of Prop O.H. <u>12-01</u> Time S.P.O.H. <u>730.8</u> Hrs.
				Next Annual Inspection Due <u>10-3-03</u> <u>Chad P. [Signature]</u> ACP481884169
				Date _____ Signature and License Number Willmar Air Service, Inc. Willmar, MN

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.)
10-14-03	Tach 16	76.6 hrs		oil filter change. 8, to Anverskill 15-50. New CHUS110. No metal in old filter. Engine run up completed. <i>J. E. [Signature]</i> A-170000003
10-24-03	Tach 1705.6 hrs			oil filter change 8, to Anverskill 15-50 New CHUS110-1 No metal in old filter. Installed 41 New BE7M388 plugs on bottom cyls. Run up completed. <i>J. E. [Signature]</i> A-170000003

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.)
1-5-04	Tach	1734.8		Installed overhauled Prop Gov From Duncan Aviation. Run-up c/k OK Brainerd ACP471130665
3-3-04	Tach	1762.0 hrs		oil and filter change. Sets Huskell 15-50 New CH48110-1. No metal found filter. Runup complete J. E. W. ACP4720307
5-10-04	Tach	1811.4		changed oil & filter screw with sets Huskell 15W-50 Installed a new CH48110-1 filter, cut open old filter No metal found Runup good. Ch. D. O. W. ACP48155410

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.)
MAY 19, 2004	1200	Insulation completed.		compression check AS follows: #1 76/80 #2 76/80
#3 78/80	#4 76/80	changed	oil + Filter	Installed new CH48110-1 Filter + BATS
Apr 26/01	155/80	LOT + Inspected	Filter	contacts check ok. Installed new BA-10205 AIR
Filter	Reinstalled	PREVIOUSLY	REMOVED	MAGNET FITE STARTER. RECHECK ALTITUDE AIR DOOR
GASKET	CLEANED	FUEL	INJECTION	NOZZLES SERVICED SPARK PLUGS CHECKED MAGNETO TIMING. CHECKED
EXHAUST	SYSTEM	CLEANED	ENGINE +	LUBED CONTROLS. GROUND RUN CHECKED OK.
				over →


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.)
				hereby certify that this (Airframe) has been thoroughly inspected as per existing (Engine) F.A.R.'s in accordance with an (Annual) inspection and found to be in an Airworthy (100 Hr.)
	Condition Tach Time	1823.8		Hrs. A/C Total Time 796.5 Hrs.
	T.S.M.O.H.	1823.8		Hrs. Engine Total Time 1823.8 Hrs.
	Date of Prop O.H.	1201		Time S.P.O.H. 909.8 Hrs.
	Next Annual Inspection Due	_____		
	Date <u>MAY 19, 2000</u> Signature and License Number <u>[Signature] AIP472281355</u> Willmar Air Service, Inc. Willmar, MN			

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.)
June 9, 2004	Tach	1840.5		Changed engine oil cut + Inspected filter No metal found. Serviced with 8qts Aero shell 15W-50 oil. Run & Leak check good. Theodor S. R. AEP 77-063829
8 July 2004	Tach	1878.3		Changed oil and filter. serviced with 8Qts AeroShell 15W-50 and Champion CH48110-1 filter. Cut and inspected old filter no metal found. Run-up and leak-ck OK Brian D. R. AEP 471130665

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.)
7-27-04		Tach	1593.4	100 hr insp Completed with Compressions #1 76/80 #2 77/80 #3 71/80 #4 76/80. Drained oil and serviced with 8qts Aero shell 15W50 oil. Removed and inspected oil filter No metal found at this time installed New oil filter. Cleaned gapped and tested plugs. Adjusted timing to 20° BTDC Checked Magneto points. Inspected Alt Belt + Wiring in spec Starter + Bendix. Cleaned fuel servo Screen. Inspe Exhaust system + heater shield Installed New BA- 6205 air Filter. CWAD 2002-26-01 2yr fuel injector inspection. Runup + Leak check good. cont →

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.)
		Cont →		hereby certify that this (Airframe) has been thoroughly inspected as per existing (Engine) F.A.R.'s in accordance with an (Annual) inspection and found to be in an Airworthy (100 lb.) Condition Tach Time <u>1893.4</u> Hrs. A/C Total Time <u>8066.1</u> Hr S.M.O.H. <u>1893.4</u> Hrs. Engine Total Time <u>1893.4</u> Date of Prop O.H. <u>12-01</u> Time S.P.O.H. <u>977.4</u> Next Annual Inspection Due <u>July 2005</u> <u>Thomas K</u> 471063829 Date <u>7-27-2004</u> Signature and License Number Willmar Air Service, Inc. Willmar, MN
tach	1920.8	8-27-2004		Complied with oil change. Drained oil Serviced with 8qt Aeroshell 15W50. Removed cut and inspected Filter No metal noted. Installed new Filter Ch481101. Leak check good. <u>Thomas K</u> AIP 471063829

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.)
9-22-04	tach Reads	1950.5		CW oil change Drained & Serviced with 8qts Pennshell 15W50, Cut and inspected filter No metal noted at this time installed New CH48110-1 Filter Pump & Log K check complete [Signature] AIP #71063829
Oct 15, 2004	tach	1980.9 hrs		oil & Filter change New CH48110-1 Pennshell in old filter 8qts Pennshell 15-50 Pump & Log K check [Signature] AIP #71063829

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.)
NOV. 9, 2007	100HR	Inspection		completed. compression check as follows: #1 20/80 #2 24/80 #3 20/80 #4 20/80 OIL CHANGED. Installed 5 QTS AeroShell 154/50 and 2 New CH48110-1 Filter. cut and Inspected old Filter. Removed both magnetos FOR Inspection. REPAIRED Block, Rotor + CONTACT Points in RH MAG. LEFT checked OIL. LUBED + INTERNALLY TINED Both and Reinstalls + Tined TO engine. REPAIRED leaking #1 + #3 INTAKE GASKETS. serviced SPARK Plugs. Installed new BA-6205 Air Filter Element. cleaned Fuel screen SCREEN. Inspected Exhaust SYSTEM. BLADE #2 WAS FOUND loose in HUB. NEW PROPELLER Installed. HUB SN - 040908 BLADE #1 SN - XL26402 BLADE #2 SN - XL26403. Check AD 2002-26-01 LYcoming Fuel Injection Lines. All lines + clamps check OK. engine was washed + Run-up check completed. <div style="text-align: center;">  </div>

