

ENGINE SYN  
L-33891-51E

# AIRCRAFT TECHNICAL LOGS

Section 3. ENGINE

ENGINE LOG

1. Make LYCOMING
2. Model IO-360-M1A
3. Specification 1E10
4. Manufacturer's Serial Number L-33891-51E
5. Date of Manufacture \_\_\_\_\_
6. Aircraft Inspection Cycle \_\_\_\_\_

# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE	
	HRS.	MIN.	HRS.	MIN.		
BROUGHT FORWARD →			0	0	ENGINE INSTALLED NEW ON DA 40 S/N 40-359	
/					Engine installation inspected I.A.W. Diamond Aircraft Industries Inc. DA 40 W.I.S. Rev: R Form ME-01-A	
					Engine service with 8 qts. Of Philips 20W50 Type "M" engine oil.	
					Engine break-in I.A.W. Lycoming Service Instruction 1427B, <b>FLIGHT TEST COMPLETED</b>	
	FEB 04 2008		4.5		HOURS BROUGHT FORWARD	
	/					



Date: March 24, 2008  
 WO#: RO-08-063 S/N: 40.889 Reg #: N889DS TTAF: 4.5 hrs.  
 Engine S/N: L-33891-51E

The Following work has been carried out:  
 Precision MSB PRS-107/AD2008-06-52 complied with, RSA servo S/N 70C89505 inspected. No defect noted. Next due in 50 hrs flying time or next and every oil change.

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

Signature: [Signature] Lic or Stamp: **DA R017**

ENGINE MODEL: IO-360-M1A  
 ENGINE S/N: L-33891-51E  
 REG. NO: 889DS  
 WORK ORDER: 1999-04-2008



**Premier Aircraft Service, Inc.**  
 5540 NW 23rd Avenue Hanger 14  
 Fort Lauderdale, FL 33309  
 Phone: (954) 334-2393

DATE: 4/29/2008  
 A/C TSN: 14.9  
 ENG TT: 14.9  
 TACH: 14.9

**Engine Entries**

REMOVED AND REPLACED GASKET WITH PN#2577258, RETORQUED AND SAFTIED AS REQUIRED. C/W A.D. 2008-06-51 IAW PRECISION AIRMOTIVE S/B PRS-107-REV 2.... C/W A.D. 2002-26-01 LYCOMING FUEL INJECTION LINE AND CLAMP INSPECTION IAW LYCOMING SB 342E. NO DEFECTS NOTED. NEXT DUE 100 HOURS FROM THIS TIME. C/W A 100 HOUR INSPECTION ON THIS ENGINE I.A.W. DIAMOND DA-40 M/M CHAPTER 5 INSPECTION GUIDE. PERFORMED COMPRESSION CHECK 78,78,77,78 /80 A&P 2738632 MECH CHRISTOPHER BARCENAS

SIGN: [Signature]  
 Maintenance Release

TOTAL I certify this engine has been inspected in accordance with an Annual inspection and found to be in airworthy condition on this date. Aircraft is approved for return to service on this date. THIS RELEASE IN NO WAY CERTIFIES FUTURE AIRWORTHINESS

PREVIOUS DATE: 4/29/2008 SIGNED: [Signature] Work Order: 1999-04-2008

# MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS  
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER

DA  
Q 42

DA  
Q 42

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.



# MAINTENANCE RECORD



SPECIAL SERVICES CORPORATION

5/5/2009

N889DS  
SN:40.899

Tach 53.8  
Hobbs 70.9

Engine SN: L-33891-51E

- \* Drained engine oil, removed and replaced oil filter with a new filter PN CH48110-1, and reserviced engine with Aeroshell 15W50. Inspected oil filter with no discrepancies noted at this time. No leaks noted on engine run.
- \* Complied with engine compression check with all cylinders with in MM limits. #1-79/80; #2-77/80; #3-78/80; #4-78/80.
- \* Adjusted Magnetos to 25 Deg TDC. Performed ground run with Mag drop with in MM limits.
- \* Performed engine power rund with no discrepancies noted at this time.
- \* Adjusted Mixture setting to correct setting in the MM. Performed ground run with no discrepancies noted.

*Caron J. Kirkland*

A&P 3124657

Date	TACH/HOBBS	ESMOH	ETT
4/28/2010	101.5	101.5	101.5

**Eng Entry**

Performed annual inspection on this engine in accordance with FAR 43 appendix D. Cleaned and gapped all spark plugs cleaned all air and fuel filters. Changed oil and filter. Serviced with 8 quart Aeroshell 15W/50 and CH48110-1 filter. Checked magneto points and timing. Replaced rub block and points in LH magneto. Retimed mags as per Lycoming maintenance manual. Lubricated exhaust system per Powerflow maintenance instructions. Performed compression check as follows: 1-78/80, 2-78/80, 3-78/80, 4-78/80. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked MFG SB's to date. Checked applicable AD's for compliance to date. Performed all work in accordance with Lycoming service manual and standard practice as listed in FAR part 43 to return this engine to service in airworthy condition. Refer to WO#G01919 on file at Dillon's Aviation, Inc.  
C/W AD 2008-14-07 fuel injector lines by inspection per par (j)(k) and Lycoming MSB 342E.

*Ladd J Maxson, Jr.*

Ladd J Maxson, Jr. For Dillon's Aviation, Inc.  
AP3064381A

7-8-10 128.9

Drained oil & changed filter AA48110-2.  
Inspected old filter, no metal found.  
Refilled with 8 qt Aeroshell 15W50.  
Run-up no leaks found.

*FAA on Cot APP 396948685*

# ENGINE SERVICE AND

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	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD <span style="font-size: 2em;">➔</span>					

**Guntly Aircraft — N889DS** 8-3-2010

*Hobb* ~~Each~~ Time 200.1 Total Time 200.1 TSOH:

Compression check 1-78/80 2-77/80 3-78/80 4-78/80 CW AD 2008-14-07 by inspection of fuel injection lines next due @ cylinder removal or 100 hours changed oil and filter filled with Aeroshell 15W50 oil installed new Champ 48110 filter old filter inspected found no metal checked controls, and control linkage

I certify that this engine has been inspected in accordance with an  
100 hour eng Inspection and has been determined to be airworthy  
condition.

A4P 1750321 Signature: *Thomas a Guntly*

**Guntly Aircraft — N889DS** 10/4/2010

~~Each~~ Time *Hobb* 256.3 Total Time 256.3 TSOH:

drained oil checked filter installed new filter filled with Aeroshell 15W50 oil

I certify that this oil change has been inspected in accordance with an  
Inspection and has been determined to be airworthy  
condition.

A4P 1750321 Signature: *Thomas a Guntly*

**Guntly Aircraft — N889DS** 10/24/2010

~~Each~~ Time *Hobb* 302.6 Total Time 302.6 TSOH:

Compression check 1-78/80 2-77/80 3-78/80 4-78/80 CW AD 2008-14-07 by inspection of fuel injection lines next due @ cylinder removal or 100 hours changed oil and filter filled with Aeroshell 15W50 oil installed new Champ 48110 filter old filter inspected found no metal checked controls, and control linkage

I certify that this engine has been inspected in accordance with an  
100 hour Eng Inspection and has been determined to be airworthy  
condition.

A4P 1750321 Signature: *Thomas a Guntly*

**Guntly Aircraft — N889DS** 0 TSOH: 0

*Hobb* ~~Each~~ Time 350.9 Total Time 0 TSOH:

drained oil checked filter installed new filter filled with Aeroshell 15W50 oil  
*Thomas a Guntly A4P 1750321*  
has been inspected in accordance with an

CARRIED FORWARD

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL SINCE MFG.	

# MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS  
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER

**Guntly Aircraft — N889DS** 12/12/2010

Tach Time 315.1 Total Time 315.1 TSOH:

Compression check 1-77/80 2-78/80 3-70/80 4-76/80 CW AD 2008-14-07 by inspection of fuel injection lines next due @ cylinder removal or 100 hours, changed oil and filter filled with Aeroshell 15W50 oil installed new Champ 48110 filter old filter inspected found no metal checked controls, and control linkage checked intake and exhaust systems engine inspected per Diamond 100 hour inspection chwk list

I certify that this engine has been inspected in accordance with an  
100 hour Inspection and has been determined to be airworthy  
condition.

Signature: Thomas A Guntly  
AIP 1750321

2-7-11 TT 360.0  
50 HR oil CH & filter  
fill w Aeroshell 15W50

**Guntly Aircraft — N889DS** 4/18/2011

Tach Time 402.7 Total Time 402.7 TSOH:

comp 1-78/80 2-77/80 3-77/80 4-75/80 changed oil and installed new filter filled with Aeroshell 15W50 oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 08-14-07 by

I certify that this engine has been inspected in accordance with an  
100 hour Inspection and has been determined to be airworthy  
condition.

Signature: Thomas A Guntly

Inspr due in 100 HR

5-10-11 oil & filter changed fill 15W50 oil. Thomas A Guntly AIP 1750321

TT 450.6

**Guntly Aircraft — N889DS** 5/30/2011

Tach Time 476.5 Total Time 476.5 TSOH: 0

Operation check of ELT PER FAR 91.207 Para D checked controls and control linkages, Completed annual inspection per Diamond inspection check list. CW AD 08-14-07 - Due next 100 HR

I certify that this engine has been inspected in accordance with an  
100 hour Inspection and has been determined to be airworthy  
condition.

Signature: Thomas A Guntly  
AIP 1750321

or Eng work disturbing  
fuel lines!

**Guntly Aircraft — N889DS** 7/17/2011

Tach Time 523.1 Total Time 523.1 TSOH: 0

Oil and filter change inspect filter

I certify that this engine has been inspected in accordance with an  
50 HOUR Inspection and has been determined to be airworthy  
condition.

Signature: Thomas A Guntly  
AIP 1750321



# ENGINE SERVICE AND

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**BROUGHT FORWARD**

**Guntly Aircraft — N889DS** 8/2/2011

Tach Time 57590 Total Time 575.9 TSOH:

comp 1-78/80 2-80/80 3-75/80 4-78/80 changed oil and installed new filter filled with Aeroshell 15W50 oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages.

I certify that this engine has been inspected in accordance with an  
100 hour engine Inspection and has been determined to be airworthy  
condition.

A # 1750321 Signature: *Thomas A Guntly*

**Guntly Aircraft — N889DS** 10/10/2011

Tach Time 668.4 Total Time 668.4 TSOH: 0

comp 1-70/80 2-78/80 3-78/80 4-78/80 changed oil and installed new filter filled with Aeroshell 15W50 oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages.

I certify that this engine has been inspected in accordance with an  
100 hour Inspection and has been determined to be airworthy  
condition.

A # 1750321 Signature: *Thomas A Guntly*

**Guntly Aircraft — N889DS** 11/15/2011

Tach Time 708.7 Total Time 708 TSOH:

Changed oil and filter filled with Aeroshell 15W50 oil filter inspected found no metal

*Thomas A Guntly A # 1750321*

**Guntly Aircraft — N889DS** 1/12/2012

Tach Time 768 Total Time 768 TSOH:

comp 1-70/80 2-78/80 3-78/80 4-78/80 changed oil and installed new filter filled with Aeroshell 15W50 oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages.

I certify that this engine has been inspected in accordance with an  
100 hour eng. Inspection and has been determined to be airworthy  
condition.

A # 1750321 Signature: *Thomas Guntly*

CARRIED FORWARD

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

# MAINTENANCE RECORD

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SIGNATURE

LICENCE  
NUMBER

**Guntly Aircraft** — **N889DS** 2/23/2012

Tach Time 818 Total Time 818 TSOH:

changed oil & filter filled with Aeroshell 15W50 oil filter inspected  
found no metal

*Thomas a. Lundy A&P 1750321*

**Guntly Aircraft** — **N889DS** 3/28/2012

Tach Time 861 Total Time 861 TSOH:

comp 1-75/80 2-78/80 3-76/80 4-78/80 changed oil and oil filter,  
installed new filter filled with Aeroshell 15W50 oil filter inspected  
found no metal checked intake and exhaust systems, checked heat  
muff, checked controls and control linkages. Installed new strap  
supporting tail piipe AD 12-03-06 NA by engine mfg date, no affected  
parts installed

I certify that this engine has been inspected in accordance with an  
100 hour engine inspection and has been determined to be airworthy  
condition.

*A&P 1750321*

Signature: *Thomas a. Lundy*

**Guntly Aircraft** — **N889DS** 5/5/2012

Tach Time 890.3 Total Time 890-30 TSOH: 0

changed oil & filter filled with Aeroshell 15W50 oil filter inspected  
found no metal run up OK.

*Thomas Lundy A&P 1750321*

June 2 2012 Tach 949.8 comp ck # 175 #277  
# 377 #477/80 changed oil filled with Aeroshell  
15W50 oil, inspected intake & EX. systems,  
controls & control linkage I certify this engine  
has been inspected in accordance with an  
100 hour inspection and has been determined  
to be in air worthy condition  
*Thomas a. Lundy A&P 1750321*

July 1 2012 Tach 992.2 changed oil  
& filter Inspected filter filled  
with Aeroshell 15W50 oil Run up check  
OK *Thomas a. Lundy A&P 1750321*

July 22 2012 Replace damaged strobe-Nav left wing tip  
with new from Diamond *Thomas a. Lundy A&P 1750321*

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

# ENGINE SERVICE AND

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	HRS.	MIN.	HRS.	MIN.	

BROUGHT FORWARD →

**Guntly Aircraft** — **N889DS** 8/8/2012

Tach Time 1049.7 Total Time 1049.7 TSOH: \_\_\_\_\_

comp 1-78/80 2-78/80 3-78/80 4-78/80 changed oil and oil filter, installed new filter filled with Aeroshell 15W50 oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or line clamp moved.

I certify that this engine has been inspected in accordance with an \_\_\_\_\_ 100 hour \_\_\_\_\_ Inspection and has been determined to be airworthy condition.

Signature: Thomas a Guntly

A4P1750371

see AJ for oil CH 9-18-12

**Guntly Aircraft** — **N889DS** 11/1/2012

Tach Time 1142.4 Total Time 1142.4 TSOH: 0

comp 1-78/80 2-78/80 3-78/80 4-78/80 changed oil and oil filter, installed new filter filled with Aeroshell 15W50 oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or line clamp moved.

I certify that this engine has been inspected in accordance with an \_\_\_\_\_ 100 hour \_\_\_\_\_ Inspection and has been determined to be airworthy condition.

Signature: Thomas a Guntly

A4P1750371

**Guntly Aircraft** — **N889DS** 4/5/2013

Tach Time 1239 Total Time 1239 TSOH: 0

comp 1-76/80 2-77/80 3-79/80 4-78/80 changed oil and oil filter, installed new filter filled with Aeroshell 15W50 oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or line clamp moved.

I certify that this engine has been inspected in accordance with an \_\_\_\_\_ 100 hour engine \_\_\_\_\_ Inspection and has been determined to be airworthy condition.

Signature: Thomas a Guntly

A4P1750371

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL SINCE MFG.	

# MAINTENANCE RECORD

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 ENTRIES: DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER

**Guntly Aircraft** — **N889DS** 7/9/2013

Tach Time 1332.8 Total Time 1332.8 TSOH:

comp 1-78/80 2-77/80 3-77/80 4-76/80 changed oil and oil filter, installed new filter filled with Aeroshell 15W50 oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or line clamp moved.

I certify that this engine has been inspected in accordance with an  
 100 hour Insp. Inspection and has been determined to be airworthy  
 condition.

A&P 1750321 Signature: Thomas a Switz

**Guntly Aircraft** — **N889DS** 9/7/2013

Tach Time 1374.3 Total Time 1374.3 TSOH:

Changed oil and filter filled with Aeroshell 15W50 inspected filter no metal found checked for leakks, none found.

Thomas a Switz A&P 1750321

Tach 1402.4

9-28-13, Retimed mags to 25°, installed all new Champion Rem 38E plugs in OK OK drop 125 each mag  
Thomas a Switz A&P 1750321

**Guntly Aircraft** — **N889DS** 9/11/2013

Tach Time 1428 Total Time 1428 TSOH:

comp 1-77/80 2-77/80 3-75/80 4-78/80 changed oil and oil filter, installed new filter filled with Aeroshell 15W50 oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or line clamp moved.

I certify that this engine has been inspected in accordance with an  
 100 hour engine Inspection and has been determined to be airworthy  
 condition.

A&P 1750321 Signature: Thomas a Switz

11-6-13 Tach & TT 1486.1

changed oil & filter, inspected filter no metal found, filled w 8 qts 15W50 Aeroshell leak ch ok

Thomas Switz A&P 1750321

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
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**BROUGHT FORWARD** — **Guntly Aircraft** — **N889DS** 4/29/2014

Tach Time 1525.8 Total Time 1525.8 TSOH:

comp 1-74/80 2-78/80 3-79/80 4-75/80 changed oil and oil filter, installed new filter filled with Aeroshell 15W50 oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or line clamp moved.

I certify that this engine has been inspected in accordance with an  
100 hour inspection and has been determined to be airworthy  
condition.

ADP 1750321 Signature: *Thomas A. Guntly*

**Guntly Aircraft** — **N889DS** 7/30/2014

Tach Time 1581.9 Total Time TSOH: 0

changed oil & filter filled with Phil 20W50 oil and new filter # 48110 run up OK no leaks detected *Thomas A. Guntly ADP*

**Guntly Aircraft** — **N889DS** 9/29/2014

Tach Time 1627.2 Total Time 1627.2 TSOH:

Compression check all 75/80 and above changed oil and filter changed oil and oil filter, installed new filter filled with Aeroshell 15W50 oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or line clamp moved.

I certify that this engine has been inspected in accordance with an  
100 hour inspection and has been determined to be airworthy  
condition.

ADP 1750321 Signature: *Thomas A. Guntly*

**Guntly Aircraft** — **N889DS** 1/22/2015

Tach Time 1725.5 Total Time 1725.5 TSOH:

Compression check 1-78/80 2-79/80 3-78/80 4-77/80 changed oil and oil filter, installed new filter filled with Phil 20W50 XC oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or line clamp moved.

I certify that this engine has been inspected in accordance with an  
100 hour engine inspection and has been determined to be airworthy  
condition.

ADP 1750321 Signature: *Thomas A. Guntly*

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

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SIGNATURE

LICENCE  
NUMBER

**Guntly Aircraft** — **N889DS** 3/19/2015

Tach Time 1818 Total Time 1818 TSOH:

removed left mag had 500 hour inspection completed by CRS  
KB2R946K WO15113 reinstalled, timed run up OK Compression  
check all 75/80 and above changed oil and filter changed oil and oil  
filter, installed new filter filled with Aeroshell 15W50 oil filter  
inspected found no metal checked intake and exhaust systems,  
checked heat muff, checked controls and control linkages. CW AD  
11-26-04 by inspection of fuel Inj lines due next in 100 hours or line  
clamp moved

I certify that this engine has been inspected in accordance with an  
100 hour engine inspection and has been determined to be airworthy  
condition.

Signature: Thomas C. Guntly  
A & P 1750321

**Guntly Aircraft** — **N889DS** 4/28/2015

Tach Time 1862.7 Total Time ~~0~~ TSOH: ~~0~~

changed oil, checked filter, found no metal.

Signature: Thomas C. Guntly  
A & P 1750321

**Guntly Aircraft** — **N889DS** 6/1/2015

Tach Time 1913.8 Total Time 1913.8 TSOH:

Compression check 1-78/80 2-79/80 3-78/80 4-77/80 changed oil  
and oil filter, installed new filter filled with Phil 20W50 XC oil filter  
inspected found no metal checked intake and exhaust systems,  
checked heat muff, checked controls and control linkages. CW AD  
11-26-04 by inspection of fuel Inj lines due next in 100 hours or line  
clamp moved.

I certify that this engine has been inspected in accordance with an  
100 hour engine inspection and has been determined to be airworthy  
condition.

Signature: Thomas C. Guntly A & P 1750321

7-215 Tach 1969 Replaced aft facing left  
nav bulb with new of ch ok

Signature: Thomas C. Guntly A & P 1750321

# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	

<b>BROUGHT FORWARD</b>	<b>Guntly Aircraft</b>	<b>N889DS</b>	7/25/2015
	Tach Time	1956.7 Total Time	1956.7 TSOH: 0
	Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date MAR 2020 checked controls and control linkages, Completed Annual inspection per Diamond inspection check list.		
	I certify that this <u>engine</u> has been inspected in accordance with an 100 hour Inspection and has been determined to be airworthy condition.		
	Adp 1750321		Signature: <u>Thomas J. Smith</u>

	<b>Guntly Aircraft</b>	<b>N889DS</b>	9/9/2015
	Tach Time	2113.4 Total Time	2113.4 TSOH: 0
	Compression check 1-77/80 2-76/80 3-77/80 4-74/80 changed oil and oil filter, installed new filter filled with Phil 20W50 XC oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj. lines due next in 100 hours or line clamp moved.		
	I certify that this <u>engine</u> has been inspected in accordance with an 100 hour Inspection and has been determined to be airworthy condition.		
	Adp 1750321		Signature: <u>Thomas J. Smith</u>

10-22-15 changed oil & filter inspected  
Tach 2164.9 Filtered No metal found, filled  
with phil 20w50xc oil, installed new Elec  
boost pump or check  
Thomas J. Smith Adp 1750321

	<b>Guntly Aircraft</b>	<b>N889DS</b>	11/23/2015
	Tach Time	2217.6 Total Time	2217.6 TSOH:
	Compression check 1-77/80 2-78/80 3-75/80 4-77/80 changed oil and oil filter, installed new filter filled with Phil 20W50 XC oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or lines, or clamps moved.		
	I certify that this <u>engine</u> has been inspected in accordance with an 100 hour Engine Inspection and has been determined to be airworthy condition.		
	Adp 1750321		Signature: <u>Thomas J. Smith</u>
<b>TOTAL THIS PAGE</b>			
<b>TOTAL FROM PREVIOUS SUMMARY</b>			
<b>TOTAL SINCE MFG.</b>			

# MAINTENANCE RECORD

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ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER

**Guntly Aircraft**      **N889DS**      1/26/2016

Tach Time    2275.1    Total Time    2275.1    TSOH:

Change oil and filter filled with Phil 20W50 removed filter inspected for metal none found run up, leak check OK

has been inspected in accordance with an

Thomas A Guntly A&P 1750321

**Guntly Aircraft**      **N889DS**      3/3/2016

Tach Time    2312.4    Total Time    2312.4    TSOH:

Compression check 1-78/80 2-78/80 3-78/80 4-60/80 changed oil and oil filter, installed new filter filled with Phil 20W50 XC oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or lines, or clamps moved.

I certify that this Aircraft has been inspected in accordance with an 100 Hour engine Inspection and has been determined to be airworthy condition.

A&P 1750321    Signature: Thomas A Guntly

**Guntly Aircraft**      **N889DS**      4/26/2016

Tach Time    2365.7    Total Time    2365.7    TSOH:    0

Change oil and filter filled with Phil 20W50 removed filter inspected for metal none found run up

leak check OK Thomas A Guntly A&P 1750321

**Guntly Aircraft**      **N889DS**      5/20/2016

Tach Time    2408.9    Total Time    2408.9    TSOH:    0

Compression check 1-78/80 2-78/80 3-78/80 4-60/80 changed oil and oil filter, installed new filter filled with Phil 20W50 XC oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or lines, or clamps moved.

I certify that this engine has been inspected in accordance with an 100 hour Inspection and has been determined to be airworthy condition.

A&P 1750321    Signature: Thomas A Guntly



# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	→				

**Guntly Aircraft — N889DS** 7/11/2016

Tach Time 0 Total Time 0 TSOH: 0

Compression check 1-78/80 2-78/80 3-78/80 #4 replaced with new CMI NI cylinder changed oil and oil filter, installed new filter filled with Phil 20W50 XC oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or lines, or clamps moved.

I certify that this Engine has been inspected in accordance with an  
100 hour engine inspection and has been determined to be airworthy  
condition.

Signature: Thomas A. Smith  
A+p 1750321

**Guntly Aircraft — N889DS** 7/26/2016

Tach Time 2530.1 Total Time 2530.1 TSOH:

Installed new s ignition park plugs, RHM38E Installed new Slick start SN 16027757 Installed rebuilt Lt mag SN E02315 4347 Kelly OH. Run up ok

Signature: Thomas A. Smith  
A+p 1750321

**Guntly Aircraft — N889DS** 9/9/2016

Tach Time 2602.6 Total Time 2602.6 TSOH:

Compression check 1-78/80 2-78/80 3-78/80 #4 78/80 changed oil and oil filter, installed new filter filled with Phil 20W50 XC oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or lines, or clamps moved. Replaced rocker gasket #2 cylinder sprayed engine clean.

I certify that this Engine has been inspected in accordance with an  
100 hour inspection and has been determined to be airworthy  
condition.

Signature: Thomas A. Smith  
A+p 1750321

9-13-16 Tach 2612.2 Replaced #2 cylinder push rod tube with new, Installed new Rocker cover gasket washed Eng down leak check OK CARRIED FORWARD Thomas A. Smith A+p 1750321

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL SINCE MFG.	

# MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS  
 ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER

*Tach 2653.6 10-16-16 changed oil & filter.  
 Filled with phil 20W50 xc run up leak check  
 ok Thomas a Guntly Adp 1750321*

**Guntly Aircraft — N889DS** 12/6/2016

Tach Time 2701.5 Total Time 2701.5 TSOH:

Compression check 1-78/80 2-78/80 3-78/80 #4 78/80 changed oil and oil filter, installed new filter filled with Phil 20W50 XC oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or lines, or clamps moved. Replaced rocker gasket #2 cylinder sprayed engine clean.

I certify that this engine has been inspected in accordance with an  
 100 hour Inspection and has been determined to be airworthy  
 condition.

Adp 1750321 Signature: *Thomas a Guntly*

*2-2-17 Tach & TT 2148.5 changed oil & filter  
 filled with phil 20W50 xc oil inspected  
 filter, no metal found Run up leak check ok.*

**Guntly Aircraft — N889DS**

4/24/2017

Tach Time 2799.9 Total Time 2799.9 TSOH:

Compression check 1-78/80 2-75/80 3-78/80 #4 75/80 changed oil and oil filter, installed new filter filled with Phil 20W50 XC oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages. CW AD 11-26-04 by inspection of fuel Inj lines due next in 100 hours or lines, or clamps moved.

I certify that this engine has been inspected in accordance with an  
 engine 100 hour Inspection and has been determined to be airworthy  
 condition.

Adp 1750321 Signature: *Thomas a Guntly*

**Guntly Aircraft — N889DS**

8/15/2017

Tach Time 2892.5 Total Time 0 TSOH: 0

Changed oil and filter, filled with Phil 20W50 XC oil run up OK no oil leaks.

*Thomas a Guntly Adp 1750321*





AD NO. / SB	RV RV	Description / Method of Compliance	Next Due	Once Rec	Code	Sign
2002-26-01 342	E	FUEL LINE AND SUPPORT CLAMP INSPECTION & INSTALL. NEW LINES INST. WITH NEW CLAMP	100 HOURS	X	1	3
2004-10-14 475	C	CRANKSHAFT GEAR MODIFICATION AND ASSY PROCEDURES NEW P/N INSTALLED	N/A	X	1	3
2005-19-11 566		Crankshaft replacement Replace Crankshaft	N/A	X	1	3
75-09-15 382		BENDIX FUEL INJ RS-43 INSP OF MOD OF FLOW DIVIDERS NEW P/N GASKET INSTALLED	N/A	X	1	3
93-11-11 N/A		AC, TEXTRON LYC FUEL PUMP O/H BY AERO ACCESSORIES NEW AC F/P INST. WHEN APPLIC.	N/A	X	1	3
94-01-03 N/A	R2	DEFECTIVE IGN COILS AND ROTATING MAGNETS NEW CONFIGURATION PART INST.	N/A	X	1	3
94-06-09 517		INCOMPLETE INTERNAL GROUNDING ON MAG CAPACITORS NEW CONF. CAPACITORS INSTALLED	N/A	X	1	3
96-23-03 525	A	HIGH PRESSURE FUEL PUMP INSTALLED LW-15473 NEWLY MANUFACTURED PUMPS INST.	N/A	X	1	3
97-15-11 527	C	RECALL OF PISTON PIN P/N LW-14077 NEW CONFIGURATION P/N INST.	N/A	X	1	3
98-02-08 530	A	INSPECTION OF CRANKSHAFT ID FOR CORROSION MAG INSP./APPLY URETHABOND 104	N/A	X	1	3
2002-12-07 543	B	OIL FILTER CONVERTER PLATE GASKET REPLACEMENT NEW P/N CONVERTER PLATE INSTALLED	N/A	X	2	
2003-14-03 529	B	ROTARY FUEL PUMP TORQUE. NEW PUMP WITH "M" SUFFIX INSTALLED	N/A	X	2	
2006-06-16 566 Sup 1		Replace crankshaft Crankshaft replaced	N/A	X	2	
2006-20-09 569	A	CRANKSHAFT REPLACEMENT REPLACE CRANKSHAFT	N/A	X	2	
64-16-05 298	Inactive	AC FUEL PUMP OIL SEAL NEW CONF. FUEL PUMP INSTALLED	N/A	X	2	
66-06-03 302	A	REPLACEMENT OF CONNECTING ROD ASSY. NEW ROD CONFIGURATION	N/A	X	2	
66-20-04 307		OIL FILTER ADAPTER GASKET NEW CONF. GASKET INSTALLED	N/A	X	2	

Codes:

- 1 AD Applicable to Engine
- 2 AD Not Applicable to Engine
- 3 Field Compliance where applicable





# RECORD OF ENGINE AIRWORTHINESS DIRECTIVES (A/D), SERVICE BULLETINS (S/B),

DATE	A/D, S/B, S/I, MODS	DETAILS OF
10/13/08	2008-14-05	AD 2008-14-05 does not effect this engine due to engine has not been overhauled or replaced since new. No further action required



SPECIAL SERVICES CORPORATION

2/9/2009

**N889DS**  
SN:40.889

\* AD 2009-02-03 has been previously complied with IAW AD 2008-08-14 and precision Airmotive MSB PRS-107. Gasket was replaced IAW MSB PRS-107 with new PN 2577258 and the letter "G" was stamped on the fuel injection servo plug. No damage to the plug was found at the time of parts replacement and was found satisfactory to install at that time.

*Paul McCall*

**A&P 3334040**

AD #	DESCRIPTION	COMPLIANCE STATUS	WO# 9172
66-20-04	oil filter adapter gasket	N/A by gasket P/N	<b>MANUFACTURER: Lycoming ENGINE MODEL: IO-360-M1A S/N: L-33891-51E</b> <b>Poplar Grove Airmotive, Inc.</b> <b>FAA Repair Station YYBR664L Terry Aavang</b> <i>T A</i> <b>Date: 15/May/2018</b>
73-23-01 R4	piston pin P/N 69650	N/A by pin P/N	
75-08-09 R3	oil pump drive shaft	N/A has drive shaft with flats	
75-09-15	fuel flow divider	N/A by P/N	
78-23-10	fuel servo	N/A by P/N	
79-04-05	fuel servo	N/A by P/N	
90-04-06R1	external oil line	N/A by engine model	
92-12-05	piston pin P/N LW-14077	N/A by pin P/N	
96-09-10 C	oil pump	P/C/W I/A/W SB524	
96-23-03	fuel pump	N/A by manufacturer	
97-15-11	piston pin	N/A by pin P/N	
98-02-08	crankshaft	N/A has constant speed prop	
98-17-11 C	crankshaft	Complied with by inspection I/A/W par (b)	
03-14-03	rotary fuel pump	N/A has diaphragm-type pump	
04-10-14 C	crankshaft gear	C/W IAW Lycoming SB 475C, due any prop strike	

AD #	DESCRIPTION	COMPLIANCE STATUS	W/O# 9172
05-19-11	failure of crankshaft	N/A by crankshaft S/N	<b>MANUFACTURER: Lycoming ENGINE MODEL: IO-360-M1A S/N: L-33891-51E</b> <b>Poplar Grove Airmotive, Inc.</b> <b>FAA-Certified Repair Station YYBR664L Terry Aavang</b> <i>T A</i> <b>Date: 15/May/2018</b>
06-06-16	crankshaft material defect	N/A by crankshaft S/N	
06-12-07	ECl cylinders	N/A to Lycoming cylinders	
07-04-19 R1	Superior cylinders	N/A to Lycoming cylinders	
09-02-03	Precision fuel servo	P/C/W, has "G" stamp on plug	
09-26-12	ECl cylinders	N/A to Lycoming cylinders	
12-03-06	AFS diaphragm	N/A by lot number of diaphragm assembly	
12-19-01	crankshaft failure	N/A by crankshaft S/N	
15-02-07	Prop Gov Shaft Set Screw	Complied with IAW SB 1343B	
15-19-07	Fuel injector lines, due every 110 hrs	Complied with by inspection IAW SB 342G, diag. 1 Next due at 3106.2 tt or fuel line maintenance.	
17-16-11	Lycoming rod bushings	N/A to new AEL13923 bushings installed	

# MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS  
ENTRIES, DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER

Engine Annual · page 1 of 1

WO: WO\_248



Steel Aviation · 53 North Street Ext · Phillipsburg, Ohio 45354 · 937 332 7587

**LYCOMING, IO-360-M1A, S/N: L-33891-51E**

**July 18, 2023**

**N889DS**  
TACH: 2998.5

1. C/W Annual Inspection in accordance with FAR 43 Appendix D using - Diamond DA40 AMM Section 05-28-00 as a guide.
2. Drained oil and serviced engine. Installed (8) P/N Phillips X/C 20W50 - Oil.
3. Removed and cut open oil filter. New filter Installed P/N AA48110-2 - OIL FILTER, DA40.
4. Checked Compressions #1 /79 #2 /79 #3 /79 #4 /79.
5. Checked Magneto timing.
6. Installed new #2 and #4 exhaust header. And installed new Powerflow collector assembly. Installed P/N 12550 - Header #2 S/N: 2023-0384-03, Installed P/N 14550 - Header #4 S/N: 2023-0384-03, Installed P/N 33003 - Collector Assembly S/N: 2023-0453.
7. C/W AD 09-02-03 by inspection next due 50 hours or next oil change.

I certify that this ENGINE has been inspected in accordance with an (annual) inspection and was determined to be in airworthy condition. Details of work performed are on file with Steel Aviation under work order: WO\_248.

Jeff Pleiman A/P I/A 3304319