



U.S. Department
of Transportation
**Federal Aviation
Administration**

DuPage Flight Standards District Office

31W775 North Avenue
DuPage Airport
West Chicago, IL 60185-1056
(630) 443-3100


LIMITED CATEGORY AIRCRAFT

OPERATING LIMITATIONS

Aircraft Make: North American
Model: P-51D
Registration Number: N251PW
Serial Number: 44-72086

1. This aircraft must be operated in accordance with the limitations set forth in Army Technical Order No. AN-01-60JE-1, a copy of which must be in the aircraft. Additionally, this aircraft shall be operated in accordance with the applicable Air Traffic and General Operating Rules..
2. Unless appropriately equipped for night and/or instrument flight in accordance with 14 CFR 91.205, this aircraft must be operated Day VFR only.
3. This aircraft shall contain the placards, markings, etc. required by FAR 91.9 and/or special requirements.
4. No person may operate this aircraft for carrying persons or property for compensation or hire.
5. Any major change to this aircraft, as defined by 14 CFR 21.93, or serious structural damage invalidates the special airworthiness certificate issued for this aircraft.

These Limitations are issued in accordance with FAA Order 8130.2G are of unlimited duration and are a part of a Replacement Special Airworthiness Certificate dated R-07/26/1988.


Thomas D. Soerens
Aviation Safety Inspector
AGL-FSDO-03

April 1st, 2017

North American P-51D Mustang

N251PW S/N 44-72086

HOBBS 560.1

TTAF 1108.6



Performed annual inspection IAW North American P51 MM T.O. 1F-51D-2 and FAR 43.15 appendix D. Inspected and cleaned aircraft. Removed inspection panels. Inspected airframe. Lubricated per lubrication chart. Removed, disassembled, cleaned, inspected brakes. Installed 2 new brake O-Rings (P/N 510790) and 1 new insulator. Assembled and ops checked brakes satisfactory. Removed and installed 2 new Avimo gaskets P/N 616478. Removed FWD and AFT manifold pressure gauges for calibration. Installed overhauled manifold pressure gauges (FWD P/N FS-18312 S/N AF43-2483 AFT P/N 31853 S/N AF43-30054). Removed and installed new rod end bearing P/N-REPB3N2 on the left elevator trim tab. Removed, inspected, and tested ELT per 91.207(D). ELT battery due 03/2018. Trim tabs were inspected IAW SB P51-001. Due 04/2018 or HOBBS 660.1. FAR 91.411 and 91.413 inspection Due 06/2017. Serviced hydraulic fluid, engine oil, and coolant (ethylene glycol). Performed normal and emergency landing gear extension. Ops check satisfactory. Engine run and leak check satisfactory. Installed inspection panels. Cleaned aircraft.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

[Redacted signature]

AITA

April 1st, 2017

North American P-51D Mustang

N251PW S/N 44-72086

Parkard Rolls Royce Merlin V1650-7 S/N 328149

HOBBS 560.1

TTAF 1108.6



Performed annual inspection IAW North American P51 MM T.O. 1F-51D-2 and FAR 43.15 appendix D. Drained engine oil. Oil sample sent to Blackstone Laboratories for analysis. Removed, cut and inspected paper oil filters. No containments found. Removed sump oil screens, inspected, cleaned and installed. No containments found. Installed 2 new Champion oil filters (P/N CH48109-1) and serviced with Phillips 25W-60. Removed A&B bank valve covers. Inspected cam rack. Torqued heads and banks IAW recommendation from Vintage V12. Heads and manifolds due HOBBS 610.1. Installed valve covers. Inspected points and lubed felt strip. Lubed manifold pressure regulator. Removed and inspected spark plugs. Repaired B bank #6 cylinder ignition lead with new contact and spring. Installed serviced spark plugs (Aircraft Spark Plug Services). Engine run and leak check satisfactory.

Compression Check

A Bank - #1 104PSI #2 105PSI #3 106PSI #4 110PSI #5 108PSI #6 106PSI

B Bank - #1 100PSI #2 110PSI #3 103PSI #4 105PSI #5 104PSI #6 110PSI

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

[Redacted signature]

AITA

April 1st, 2017

North American P-51D Mustang

N251PW S/N 44-72086

Hamilton Standard 24D50/6547A SNB9804

HOBBS 560.1

TTAF 1108.6



Performed annual inspection IAW North American P51 MM T.O. 1F-51D-2 and FAR 43.15 appendix D.- Visually inspected propeller blades, cuff and spinner. No defects noted. ADPBLD 6547A next due February 2018.

I certify this propeller has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

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AITA

DATE	AIRFRAME TIME	AVIONICS TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK																																																																																																																																																																																																																																																																									
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On Altitude LLC - Repair Station		Date		WO#	
OQLR736Y		06/03/2017		1585	
N Number		Make		Model	
N251PW		NAVTEC AMMCON		PS1	
I certify that the Static System checks required by 14CFR FAR 91.411 have been performed this date and found to comply with FAR43 Appendix E, par. a. Signed: _____					
I certify that the ATC Transponder Tests and Inspections required by 14CFR FAR 91.413 have been performed this date and found to comply with Far 43 Appendix E. Signed: _____					
Transponder 1		Serial		Serial	
KT-76A		48285			
Transponder 2		Serial		Serial	
K226					
I certify that the Automatic Pressure Altitude Recording System Checks required by 14CFR FAR91.217 and FAR91.411 have been performed this date and found to comply with FAR Appendix E, par. c. Signed: _____					
Encoder 1		Serial		Serial	
550-122		21892			
Encoder 2		Serial		Serial	
TRANSAL					
I certify that this aircraft/component has been inspected in accordance with current FAA regulations and is approved for return to service. Details of the repair are on file under this work order. Signed: _____					

Altimeter Test Data per FAR 91.411 IAW FAR 43 Appendix E Par B																																																																																																																																																																																																																																																																			
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1,000	20	0	50% of Max ALT	75	+20	4,000	35	+20	29.50																																																																																																																																																																																																																																																										
1,500	25	0	40% of Max ALT	75	+5	5,000	70	-20	29.50																																																																																																																																																																																																																																																										
2,000	30	+10	AFTER EFFECT	30	+5	10,000	80	-30	29.92																																																																																																																																																																																																																																																										
3,000	30	+20				15,000	90	-30	30.50																																																																																																																																																																																																																																																										
4,000	35	+20				20,000	100	-40	30.90																																																																																																																																																																																																																																																										
6,000	40	+5				25,000	120	-40	30.99																																																																																																																																																																																																																																																										
8,000	60	+10				30,000	140	-40																																																																																																																																																																																																																																																											
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16,000	110	-60				50,000	280																																																																																																																																																																																																																																																												
18,000	120	-70				Next Altimeter Certification																																																																																																																																																																																																																																																													
20,000	130	-70				Due																																																																																																																																																																																																																																																													
22,000	140	-70				07/01/2017																																																																																																																																																																																																																																																													
25,000	155	-60				This Altimeter in reference to the work performed is returned to service.																																																																																																																																																																																																																																																													
30,000	180	-20				On Altitude LLC Repair Station OQLR736Y Date 06/03/17																																																																																																																																																																																																																																																													
35,000	205					Signed: _____																																																																																																																																																																																																																																																													
40,000	230																																																																																																																																																																																																																																																																		
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Classic Air Services, Inc.

HANGAR ONE

CAPE MAY COUNTY AIRPORT

RIO GRANDE, NEW JERSEY 08242

609-889-0300

AIRCRAFT WEIGHING RECORD

AIRCRAFT: North American F-51D
 REGISTRATION: N789DH
 SERIAL NO: 44-72086
 DATE: September 28, 1993

EQUIPMENT LIST AS WEIGHED

1 - Rolls-Royce Merlin V-1650-7	1 - Electronic Timer
1 - Hamilton Std. 24D50 Propeller	1 - Coolant Door Position Indicator
2 - Airspeed Indicators	1 - Dual Tank Fuel Quantity Indicator
1 - Electric Attitude Indicator	1 - Hour Meter
1 - Vacuum Attitude Indicator	1 - Shadin Miniflo Fuel Flow System
2 - Rate-of-Climb Indicators	1 - King KCS-55 HSI System
2 - Vacuum Turn-and-Bank Indicators	1 - King KX-165 Nav/Com
2 - Altimeters	1 - King KY-196A Comm
2 - 8 Day Clocks	1 - King KT-76A Transponder
2 - Accelerometers	1 - King KN-64 DME
2 - Magnetic Compasses	1 - King KR-87 ADF
2 - Manifold Pressure Gauges	1 - King KR-22 3-Light Marker Bcn.
2 - 3-in-1 Engine Instrument Gauge	1 - King KA-25 ECS Audio Amplifier
2 - Tachometers	1 - King KA-134 Audio Select Panel
1 - Vacuum Gauge	1 - King KI-207 Nav Indicator
2 - Ammeter/Voltmeters	1 - NorthStar M-2 Loran Reciever
2 - Engine Coolant Temp. Gauges	1 - NorthStar 8100 GPS
1 - Hydraulic Pressure Gauge	1 - Augus 7000 Pictorial Nav Display
2 - Carburetor Air Temp. Gauges	1 - ACK A-30 Altitude Encoder
2 - Oxygen Blinker Indicators	1 - AV-0X 40 Cu. Ft. Oxygen Bottle
1 - Oxygen Pressure Gauge	1 - Whelen 3-Light Strobe System
2 - A-14 Dilute/Demand Oxy. Regs.	

THE AIRCRAFT WAS WEIGHED AT THE MAIN GEAR AND THE TAIL WHEEL WITH FULL OIL, COOLANT, HYDRAULIC FLUID AND FUEL TANKS. EMPTY CARTRIDGES IN GUN BELTS WERE IN THE WING MAGAZINE BAYS. THERE WAS 100 POUNDS TARE ON THE HORIZ. STABILIZERS AT STATION 325.

WEIGHT AND BALANCE CALCULATIONS

RIGHT MAIN	3830 LBS				
LEFT MAIN	3780 LBS				
	<u>7610 LBS</u>				
TAIL WHEEL	1080 LBS				
TOTAL	<u>8690 LBS</u>				
		TARE	-100		
		FUEL (180 GAL)	<u>-1080</u>		
			7510		
				136.7	
					1026445

CG = 1177 + $\frac{1080 \times 189}{8690}$ = 140.5						
		8690	X	140.5	=	1220945
				325.0	=	-32500
				<u>150.0</u>	=	<u>-162000</u>
NEW EMPTY WEIGHT	7510			FWD C.G. LIMIT		133.8
NEW EMPTY WEIGHT C.G.	136.7			RWD C.G. LIMIT		144.2
NEW EMPTY WEIGHT MOM.	1026445			GROSS WEIGHT		10,500
(AEROBATIC RWD C.G. LIMIT	141.2)					

CONT.

#2

A/C copy

N510JS W&B.numbers

AIRCRAFT WEIGHT AND BALANCE REPORT

TAB-AIR, MAINTENANCE / RESTORATION

DATE: 7/1/11
MAKE/MODEL: N.A. P-51D
TSDS: LTC-11-5

SERIAL #: 44-72086
REGISTRATION #: N510JS
REGISTERED OWNER: PAUL WOODS

DATUM POINT LOCATION: 139" FORWARD OF JIG POINT

NON-RESIDUAL FUEL: _____ gals. @ 6lbs / gal. = 0
NON-RESIDUAL OIL: 12.5 gals. @ 7.5lbs / gal. = 93.75

AIRCRAFT AS WEIGHED:

ITEM OR WEIGHT POINT	WEIGHT OR SCALE READING	ARM	MOMENT
RIGHT MAIN	3632	129	468528
LEFT MAIN	3858	129	497682
TAIL/NOSE	270	340	91800
FUEL	0	163	0
OIL	-94	117	-10998
MISC. TARE	-235	335	-78725
FIXED BALLAST	40	361	14440

982727

NEW EMPTY WEIGHT: 7471 lbs.

NEW A/C EMPTY WEIGHT C.G.: 131.54 INCHES

EMPTY WEIGHT C.G. RANGE: NONE

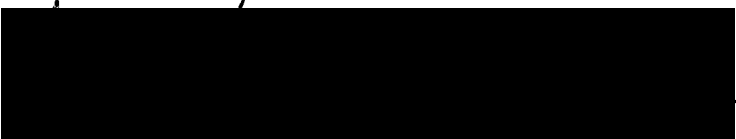
FLIGHT C.G. RANGE: 21% to 31% MAC gear down. 135.71" to 143.67" datum

GROSS WEIGHT: 10500 lbs.

USEFUL LOAD: 3029 lbs.

ADDITIONAL NOTES:

SIGNED: _____



DATE: 7/1/11