

FINAL INSPECTION SHEET

PIPER SR. <u>18-1</u>	T.C. <u>1A2</u> ✓	FINAL ASSY. OK <u>David</u>
NC <u>5410 H</u>		DATE MFG. <u>11/23/49</u>
ENGINE <u>Cont C90-8 F</u>		F.A. INSP. <u>Thurman</u> DATE <u>11/23/49</u>
ENGINE SR. <u>42134-9-8</u>		C.A.A. INSP. ¹⁰⁴⁵ <u>W.P. McKinnel</u> DATE <u>11/23/49</u>
MAG. MFG.	LT. <u>Bentley</u>	TEST PILOT <u>1513</u>
SR. NO. -	RT. <u>Bentley</u>	PREFLIGHT & INSP. _____
PROP MFG. <u>Laminich</u>		SPECIAL ITEMS
SR. <u>R8594</u> DES. <u>72EK50</u>		AIRSPED <u>Airs Marine</u>
COLOR <u>Yellow-Brown trim</u>		TACHOMETER <u>St. Wagner</u>
FUEL TANK SR. <u>18-2</u> ✓		COMPASS <u>Quipath C2500</u>
WING SR. - - - - -	LT. <u>18-7</u>	ALTIMETER <u>Airs Marine</u>
	RT. <u>18-8</u>	TURN & BANK _____
TIME FLY - <u>4</u> - - -	LT. <u>Cub</u>	RATE OF CLIMB _____
	RT. <u>"</u>	OIL TEMP. & PRESSURE <u>yes</u>
BRAKES <u>Scott Dual</u>		AMMETER _____
TAIL WHEEL <u>Scott 3000</u>		STARTER _____ MODEL _____
WEIGHT: <u>80 3/4</u> (69 1/2) ✓		GENERATOR _____ MODEL _____
TAIL (WT) <u>58 3/4</u> TARE <u>12</u>		BATTERY _____ TYPE _____ VOLT _____
LEFT <u>356</u> (350)		LANDING LIGHT _____ TYPE _____
RIGHT <u>366 1/4</u>		NAV. LIGHTS _____
TOTAL <u>78 1/2</u>		FUELS _____ TYPE _____
INSP. <u>Thurman</u>		FIRE EXT. & BRKT. _____
REMARKS: <u>Rear Dist attachment</u>		CABIN & CAB. HEAT <u>PAC</u>
<u>has per ECO 2088</u>		PARKING BRAKES _____
<u>Other changes reported</u>		MIXTURE CONTROL <u>yes</u>
<u>rear chutes</u>		TRANSMITTER _____
		RECEIVER _____
		ANTENNA <u>4-5</u>
		OIL CAPACITY <u>7.6 pt.</u>

EQUIPMENT INSTALLED

ITEM

WT.

AM ABOUT
VINO L.E.

- ☒ Propeller: Wood Fixed Pitch
☐ Propeller: Fixed Pitch Metal
☒ 8.00-6 Wheel with Brakes & 4 Fly
☒ 6 x 2.00 Tail Wheel, Steerable
☐ Battery and Box
☐ Position Lights
☒ Continental Engine C-90-87
☐ Continental Engine C-90-127

11 (-51)

21 (51)

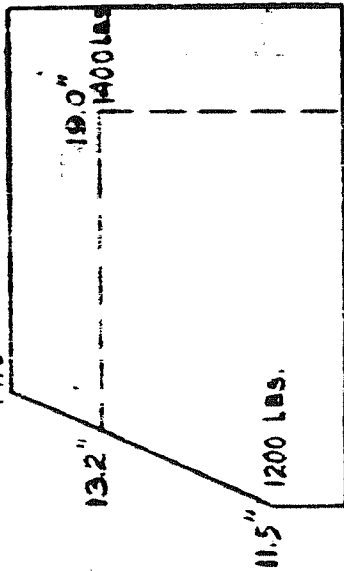
31 (2)

6 (200)

27 (51)

3 (65)

APPROX C.O. RANGE Vg WEIGHT
 14.0 21.0 1500 LBS.



C.G. RANGE (IN. AFT M.L.E.)

Normal Category

Utility Category

ACTUAL WEIGHT AND BALANCE

MODEL PA-16 (COMMERCIAL) MODEL PA-19 (MILITARY)
 (CONTINENTAL C-90-87 OR C-90-127 ENGINE INSTALLATION)

SERIAL NO. 11-1# 5410H

Approved by

Edward R. M... ..
 Weight and Balance Engineer

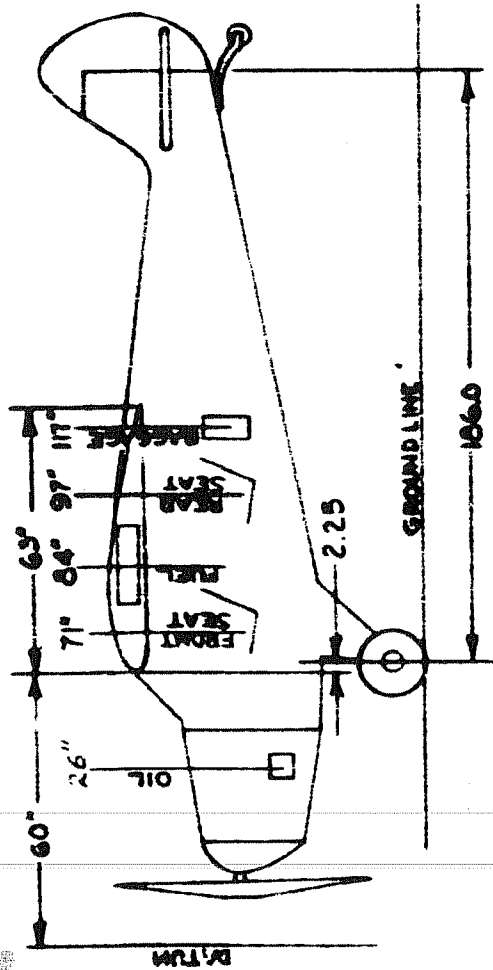
PIPER AIRCRAFT CORPORATION

LOCK HAVEN, PENNA.

DATE: 11-23-42

EMPTY WEIGHT WAS WEIGHED
 (Including items listed on last page)

	Scale Reading	Tare	Net
Left Wheel	<u>35.6</u>	—	<u>45.6</u>
Right Wheel	<u>366.25</u>	—	<u>366.25</u>
Tail Scale	<u>69.75</u>	<u>11</u>	<u>58.75</u>
Total			<u>781.00</u>



C.O. Empty "As Weighed" is aft of Wheel C.L. $\frac{186 \times 57.75}{771} = 14$
 Distance from datum to wheel C.L. $60 + 2.25 = 62.25$

C.O. Empty "As Weighed" is aft of datum $62.25 + 14 = 76.25$

MOST FORWARD C.O. UTILITY AND NORMAL CATEGORIES			
ITEM	WT.	ARM	MOMENT
Empty weight "As Weighed"	781	76.25	59551
Oil (1.2 gal.)	9	26	234
Fuel (7.5 gal.) Wing	45	84	3780
Pilot & Chute (Front)	190	71	13490
Total	1025	75.18	77055

Most Forward C.O. 15.18 " aft of wing L.E.

MOST REARWARD C.O. UTILITY CATEGORY			
ITEM	WT.	ARM	MOMENT
Empty weight "As Weighed"	781	76.25	59551
Oil (1.2 gal.)	9	26	234
Fuel (18.0 gal.) Wing	108	84	9072
Pilot & Chute (Front)	190	71	13490
Passenger & Chute (Rear)	190	97	18430
Total	1278	78.86	100797

Most Rearward C.O. Utility Category 18.86 " aft W.L.E.

MOST REARWARD C.O. NORMAL CATEGORY			
ITEM	WT.	ARM	MOMENT
Empty weight "As Weighed"	781	76.25	59551
Oil (1.2 gal.)	9	26	234
Fuel (18 gal.) Wing	108	84	9072
Pilot (Rear)	170	97	16490
Baggage 50 lb. Fuel.	350	117	40950
Total	1100	81.0	89091

Most Rearward C.O. Normal Category 21.0 " aft of W.L.E.

*For approved limits see "Approved C.O. Range V_s Weight" Diagram on last page.

2.00 and other considerations

PLAN

10-1

[REDACTED]

[REDACTED]

1. L. ...

[REDACTED] [REDACTED]
 [REDACTED] [REDACTED]



100

RESEARCH



SECRET

THE SECRET CODE

CONFIDENTIAL

CLINTON

