

PIPER AIRCRAFT CORPORATION
LOCK HAVEN, PENNA.
ACTUAL WEIGHT AND BALANCE
MODEL PA-22"150" TRI-PACER

SERIAL NO. 22-

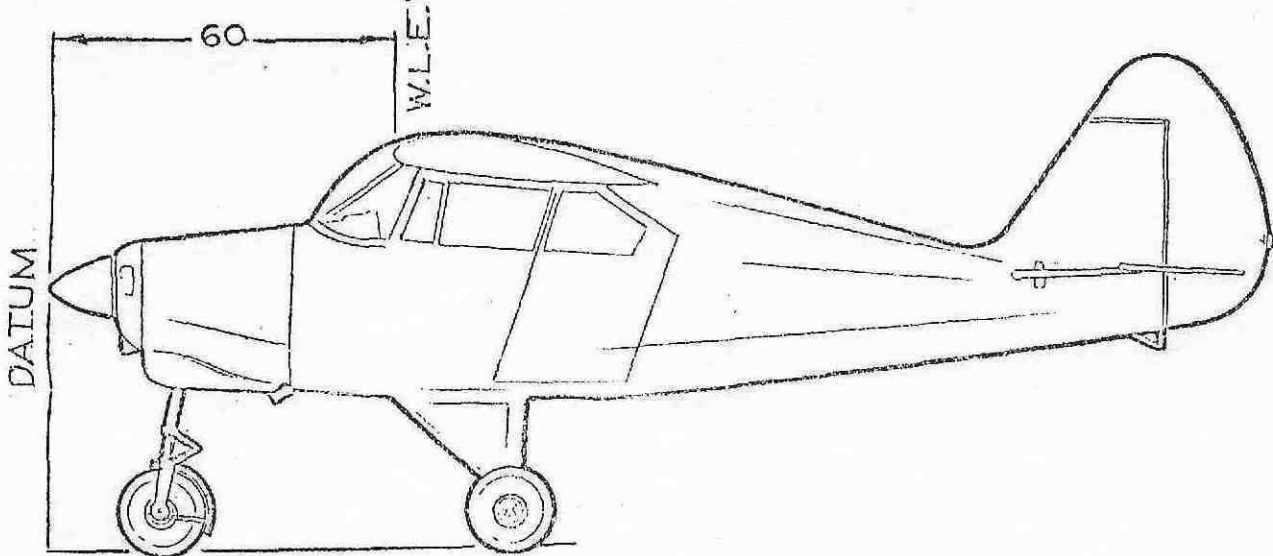
CERTIFICATE NO. N

DATE

APPROVED BY:

James R. Buchle

WEIGHT AND BALANCE ENGINEER



AIRPLANE WEIGHING DIAGRAM

Empty Weight as Weighed (Includes items checked on Pages 7
8 and 9).

Left Wheel

Right Wheel

Nose Wheel (N) _____

Total (T) _____

Empty Weight C.G. Forward Main Wheel Centerline is:

A. $\frac{\text{(N)}}{\text{(T)}} = A$ _____ In.

Empty Weight C.G. Aft Wing Leading Edge is:

B. $31.5 - A$ _____ = _____ In.

Empty Weight C.G. Aft of Datum is:

C. $60.0 + B$ _____ = _____ In.

MOST FORWARD C.G. (NORMAL CATEGORY)

Item	Weight	Arm	Moment
Empty Weight			
Oil (8 Qts.)			
Fuel (12.5 Gal.) Wing			
Pilot (Front Seat)			
	_____	_____	_____
	TOTAL		

MOST FORWARD C.G. IS _____ IN. AFT OF WING L.E.

MOST FORWARD C.G. (ALTERNATE) NORMAL CATEGORY

Item	Weight	Arm	Moment
Empty Weight			
Oil (8 Qts.)			
Fuel (18 Gal.) Wing			
Pilot (Front Seat)			
Passenger (Front Seat)			
	_____	_____	_____
	TOTAL		

MOST FORWARD C.G. IS _____ IN. AFT OF WING L.E.

MOST REARWARD C.G. NORMAL CATEGORY

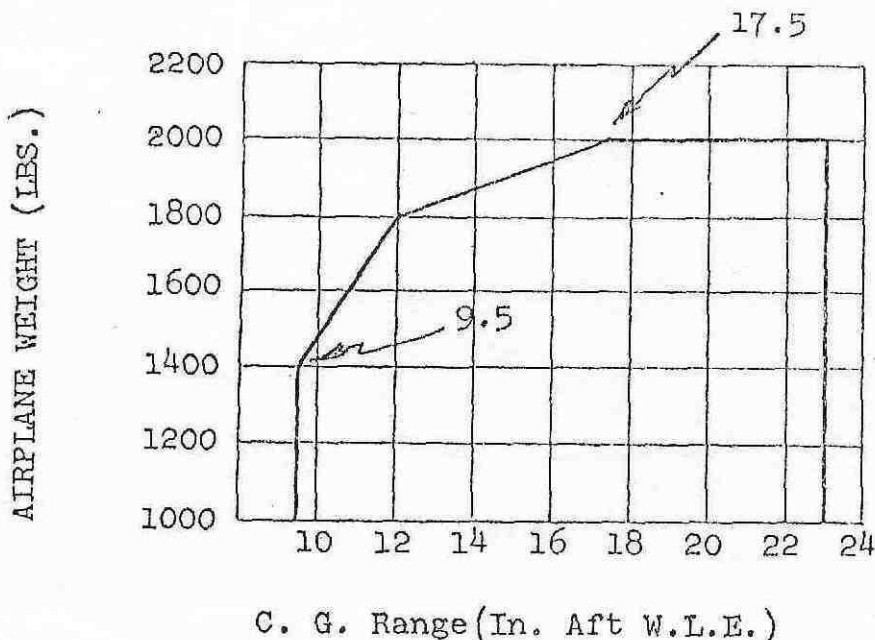
Item	Weight	Arm	Moment
Empty Weight			
Oil (8 Qts.)			
Fuel (36 Gal.) Wing			
Fuel, Auxiliary (* _____ Gal.)			
Pilot (Front Seat)			
Passenger (2 Rear Seat)			
Baggage			

TOTAL

MOST REARWARD C.G. IS _____ IN. AFT WING L.E.

* Auxiliary Fuel Tank Total Capacity - 8 Gal.

APPROVED C.G. RANGE VS. WEIGHT



ACTUAL WEIGHT AND BALANCE
MODEL PA-22"150" TRI-PACER

EQUIPMENT LIST

<u>Item No.</u>	<u>Item</u>	<u>Weight</u>	<u>Arm About W. L.E.</u>
<u>Propellers and Propeller Accessories</u>			
5.	Propeller - Sensenich M74DM Fixed Pitch Metal	30 lbs.	(-50)
a.	Spinner Dome PAC Dwg. 14422 and Bulkhead Adaptors PAC Dwg. 14426 and 14424.	2 lbs.	(-52)
6.	Propeller - Hartzell Hub HC ⁸ 2XG-6 Blades 7636D-4, Constant Speed Controllable Blade Pitch Settings at 30 in. Sta.: Low 12°, High 26° Diameter: Not over 72 in., Not under 70 in.	54 lbs.	(-50)
a.	Spinner Dome PAC Dwg. 14879 and Spinner Mounting Plate PAC Dwg. 14878.	3 lbs.	(-52)
b.	Woodward Hydraulic Governor Assembly 210 115	3 lbs.	(-20)
c.	Lycoming Dual Drive Kit Assy. 70385	4.8 lbs.	(-25)
<u>Engine and Engine Accessories</u>			
103.	Oil Cooler - Harrison No. AP13SJ03-01 or AP12CU03-01 PAC Dwg. 13724 or 14368.	6 lbs.	(-46)
104.	Reserve 8 Gal. Fuel Tank with Electric Transfer Pump. PAC Dwg. 14454	12 lbs.	(+46)
105.	Vacuum Pump - Pesco Model 3P-194-F, Type B-11	4 lbs.	(-25)
106.	Starter, Delco Remy 12 v.	17 lbs.	(-40)
<u>Landing Gear</u>			
201.	Two Main Wheel - Brake Assemblies 6:00 - 6, Type III	14 lbs.	(+31.5)
a.	Cleveland Aircraft Products Model 6:00 DHB-3 Wheel Assembly No. C-38500H Brake Assembly No. C-2000H		

<u>Item No.</u>	<u>Item</u>	<u>Weight</u>	<u>Arm About W. L.E.</u>
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Landing Gear (Cont'd)

202.	Two Main 4-Ply Rating Tires, 6.00-6 Type III with regular tubes	17 lbs.	(+31.5)
205.	One Nose Wheel 6.00-6 Type III a. Cleveland Aircraft Products Wheel Assembly No. C-38500H (Less Brake Drum)	5 lbs.	(-36)
206.	One Nose Wheel 4-Ply Rating Tire 6.00-6 Type III with regular tube	9 lbs.	(-36)
208.	Skis a. Federal A-2000A Main Skis and NA-1200 Nose Ski, Per Federal Dwg. 11R951	Use Actual Wt.	Chg.
209.	Edo Model 89-2000 Floats with Water Rudder Installed in accordance with EDO Dwg. No. 16270 and PAC Dwg. 14375	Use Actual Wt.	Chg.

Electrical Equipment

302.	Two Landing Lights, GE Model 4509 in W. L.E. PAC Dwg. 12534	4 lbs.	(+5)
303.	Battery Reading R33-12V	28 lbs.	(+21)
304.	Generator, Delco Remy. 12 V., 20 Amp with Mounting Bracket	10.6 lbs.	(-40)
305.	Navigation Lights - Grimes	3 lbs.	(+65)

Interior Equipment

401.	Flight Manual and Supplements h. DMCR Approved Airplane Flight Manual Dated September 3, 1954 for Airplanes Equipped with Lycoming O-320 Engines. i. DMCR Approved Airplane Flight Manual Dated September 3, 1954 for Model PA-22S"150" Seaplanes Equipped with EDO Model 89-2000 Floats. j. DMCR Approved Supplement 1 to Flight Manual Dated September 3, 1954 (Required with Item 104 Auxiliary Fuel System). Model PA-22"150"		
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