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AIRCRAFT WEIGHT AND BALANCE REPORT

Crummen G21A - Serial NO. 1083 CF-BZY  
Aircraft owned by Canada Veneers Ltd St. John N.B.

- This aircraft was weighed in the hangar of the Fundy Flying Club at Millidgeville Airport N.B. on August 23, 1949, by G.B. Rayner A756.
- At time of weighing the aircraft, the following conditions applied:
  - The aircraft was in flying position. A level placed on the leveling lugs in the pilots' compartment read zero degrees.
  - The aircraft contained 183 imp. gals of fuel and 12.5 gals oil.
  - Items of removable equipment in the aircraft at time of weighing are listed in Paragraph No. 8 of this report.
- The equipment used in weighing this aircraft was Black & Decker Load O Meter weighing equipment.

4. Items	Wt. Lbs.	Arm ins.	Moment ins. - lbs.
Right Main Wheel	3715		
Left Main Wheel	3483		
Sub total (both main wheels)	7198	9.8	70540.4
Tail wheel	565	212.5	119949.5
	7763	24.5	190489.9
Less fuel and oil			
fuel 183 imp gals	-1318	+ 30	-39540
oil 12.5 imp. gals	-112	+ 8	- 896
Aircraft empty weight and moment	6333	23.6	+ 150053.9
Empty C of G 23.6" aft of datum.			

- The datum is the wing leading edge at fuselage.
  - The C of G limits are (+20.5) 15.2%MAC to (+33.0) (28.0%MAC)
  - The maximum authorized all up weight for this type of aircraft is 8000 lbs.
- Most forward loading conditions:

	Wt. lbs	Arm ins.	Moment.
Aircraft empty wt and mt.	6333	23.6	+ 150054
Pilot & Co-pilot @ 170	340	- 5	- 1700
Fuel 56 imp. gal	403	+ 30	+ 12090
Oil 12.5 imp. gal.	112	+ 8	+ 896
2 passengers @ 170	340	+ 24	+ 8160
1 passenger @ 170	170	+ 62	+ 10540
Baggage in nose comp't	260	- 65	- 16900
	7958	20.5	163140

7. Most aft loading condition:

	Wt. lbs.	Arm ins.	Moment
Aircraft empty wt. and mt.	6333	+ 23.6	+ 150054
Pilot @ 170	170	- 5	- 850
Fuel 183 imp. gals	1318	+ 30	+ 39540
Oil 12.5 imp. gals.	112	+ 8	+ 896
Baggage 67 lbs. rear comp't	67	+169	+ 11323
	8000	25.12	200963

OR

Aircraft empty wt. and mt.	6333	+ 23.6	+ 150054
Pilot @ 170 lbs	170	- 5	- 850
Fuel 86 gals.	619	+ 30	18570
Oil 12.5 imp. gals	112	+ 8	896
2 pass. @ 170 lbs.	340	+ 62	21080
2 " @ 170 lbs.	340	+102	34680
Baggage (rear comp't)	86	+169	14534
TOTAL	8000	29.87	+ 238964

Checked ok.

C.H.S.

May 16/51.