

# AIRCRAFT SERVICES (WESTERN) LIMITED

STEVENSON AIRPORT, WINNIPEG

AIRCRAFT OVERHAUL - PROPELLOR OVERHAUL  
SALES & SERVICE - AIRCRAFT PARTS

Telephone 61231  
P.O. Box 5, St. JAMES, Manitoba

November 9th, 1949.

## EMPTY WEIGHT CENTRE OF GRAVITY DETERMINATION FOR PIPER J03, CP-80B

1. Aircraft weighed on Lodometer Type Scales, Serial Nos: 20143, 20144, 20145, calibrated September 16th, 1949.
2. Aircraft weighed less fuel and oil in a closed hangar by Aircraft Services (Western) Limited, Winnipeg, Man.
3. Weight includes pilot and co-pilot seats, belts and cushions and one hand fire extinguisher.
4. Average Empty weight 718 lbs
5. Average Tail Weight 48.3 lbs
6. Distance between wheel  $\pm$  199  $\frac{1}{16}$  in.
7. Distance leading edge of wing in front of main wheel  $\pm$  1  $\frac{13}{16}$
8. Distance empty weight C. of G. in aft of wheel  $\pm$  =  
tail weight multiplied x distance between tail and  
main wheel  $\pm$  divided by empty weight  
$$\frac{48.3 \times 199 \frac{1}{16}}{718} = 13.390$$
9. Distance empty weight C. of G. is aft of wing leading edge  
 $13.390 \pm 1 \frac{13}{16} = 15 \frac{1}{4}$
10. Datum line Wing Leading Edge.
11. C. of G. Limits  $\pm$  8 to  $\pm$  20.3

CERTIFIED:

*W. Smith*  
Air-Engineer Licence No: A 2084