

SAMPLE LOADING PROBLEM				
VH-UPG				
ITEM	SAMPLE AIRPLANE		YOUR AIRPLANE	
	WEIGHT (lbs)	MOMENT (in-lbs)	WEIGHT (lbs)	MOMENT (in-lbs)
Licensed Empty Weight	1270	17851	—	—
Oil-8qts @ 7.5 lbs/gals	+15	-543	—	—
Licensed Empty Weight & Moment with Oil	1285	17308	1360	17319
Pilot	190	3025	190	2993
Rear Passenger	190	8500	190	8550
Wing Fuel 40 Gals Max @ 6 lbs/gal	120 (20 gal)	3125	96 (16 GAL/64 L)	2496
Baggage-100 lbs Max (Normal Category Only)	-0-	-0-	—	—
Gross Takeoff Weight & Moment	1785	31958	1836	31358

- NOTE:
- 1) Use Figure 5-2 loading graph to determine moment.
 - 2) To determine Takeoff Center of Gravity (inches aft of datum), divide the Gross Takeoff Moment by the Gross Takeoff Weight. Center of Gravity Limits are listed in Section I.
 - 3) The above sample problem is loaded for aerobatic flight conditions and assumes a 170 pound pilot and passenger with parachutes.

FIGURE 5-1 SAMPLE LOADING PROBLEM

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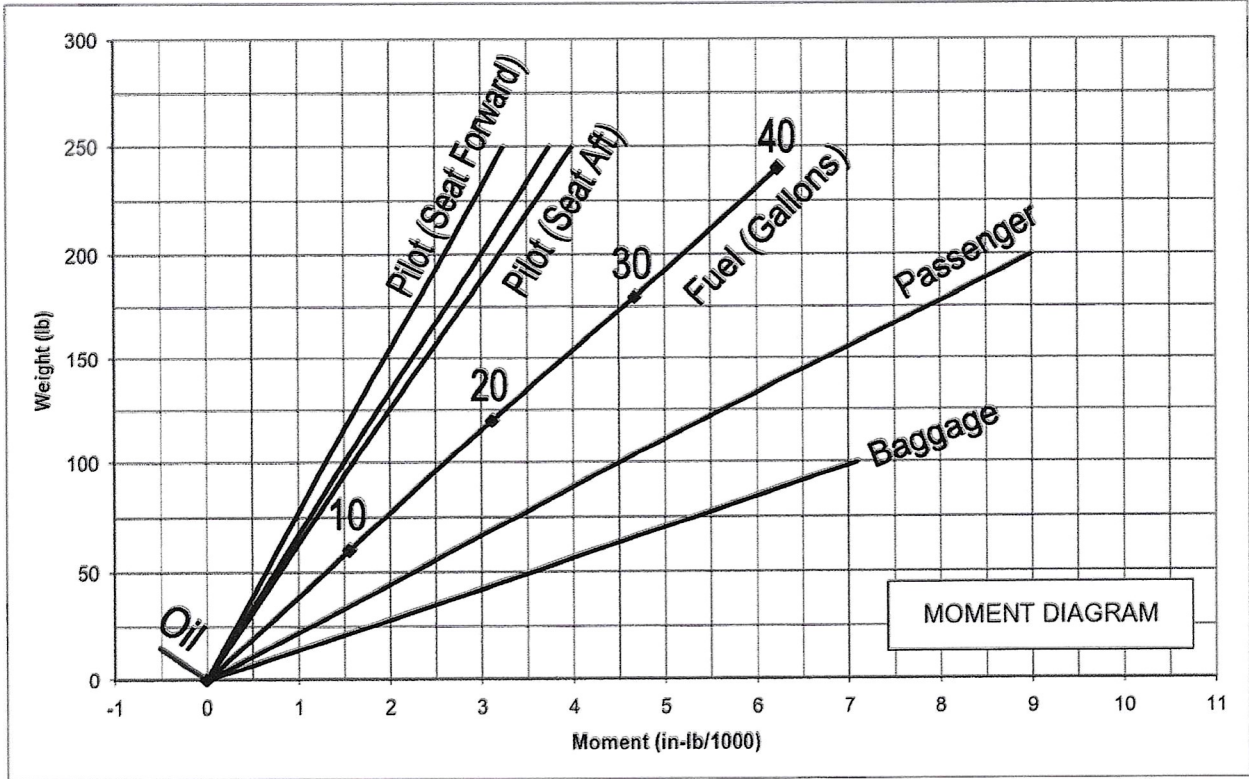
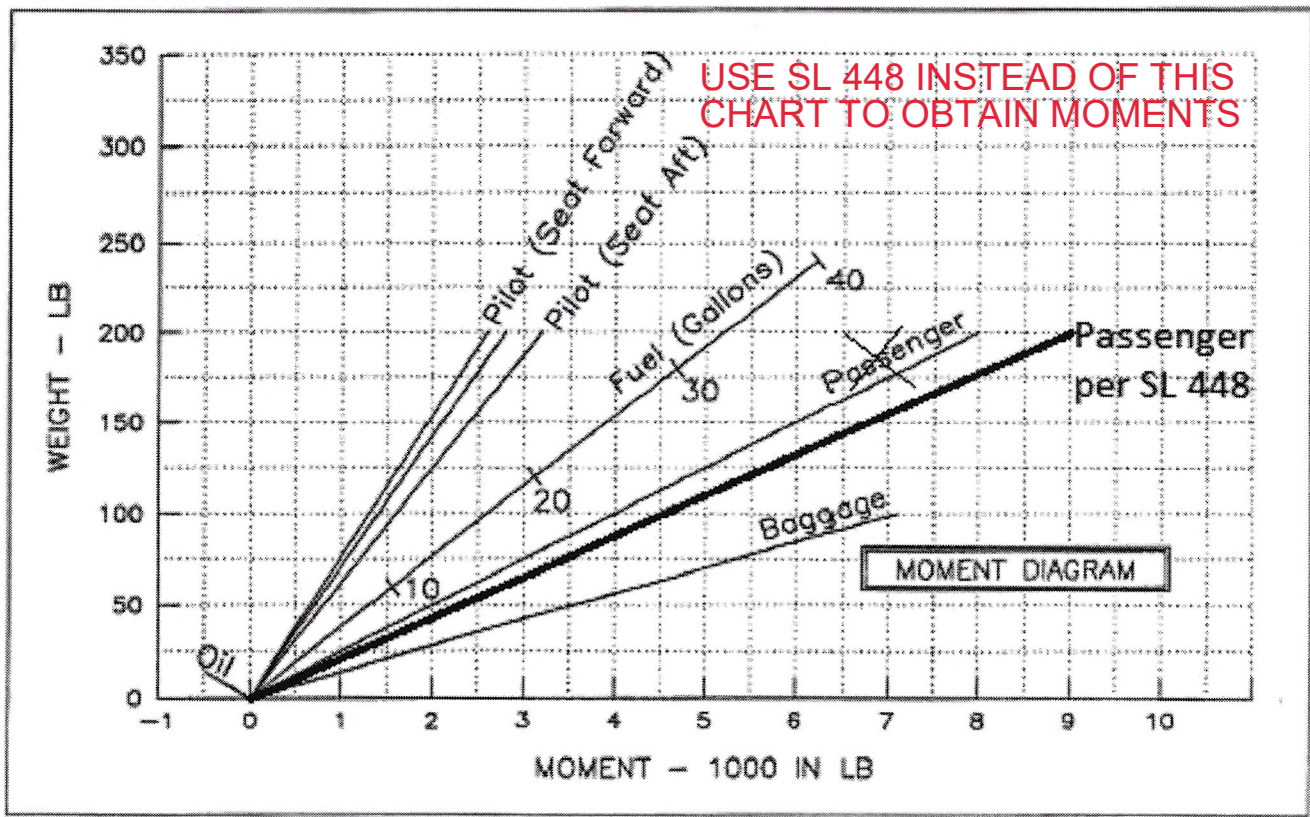


Figure 2, Revised Loading Chart



Add weights and moments of items in MOMENT DIAGRAM to airplane empty weight and moment. (negative oil moment) Locate intersection of total weight and moment on AIRPLANE LOADING ENVELOPE. Any point within the envelope meets all balance requirements.

