

Aircraft Weight and Balance Revision

Tail Number: N1528Y		Date: Feb 15, 2011	
Prepared by: SAE Aviation 5022 Central Pkwy Conroe Tx 77303		Work Order No:	
		Type Certificate Data No:	
Aircraft Make: C172C	Model: 172	Serial No: 17249228	Time: 2934
Registered Owner: Guy Grumbles		Address: 3410 Fir Forest Dr Spring Tx 77388	
Maximum Weight 2220		CG Range FWD AFT	
As Received; Date of Previous Weight and Balance: May 14, 1994		Useful Load: 832.5	EW: 1387.5
Notes:		EWCG: 38.0	Moment: 52725.0

	Weight	Arm	Moment
Removed known, unused nav equipment	-7.25	0.1	-0.73
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00

<input checked="" type="checkbox"/> As Calculated <input type="checkbox"/> As Weighed	<table style="width: 100%;"> <tr> <td style="text-align: right;">Moment</td> <td style="text-align: right;">52724.28</td> </tr> <tr> <td style="text-align: right;">Weight</td> <td style="text-align: right;">1380.25</td> </tr> </table>	Moment	52724.28	Weight	1380.25	New Empty Weight CG 38.20	New Useful Load 839.75
Moment	52724.28						
Weight	1380.25						
		Signature <small>Scott Egesdahl</small> 					
		Repair Agency or License No: <small>A&P3515856</small>					

Operating Limitations

SAMPLE LOADING PROBLEM	Sample Airplane		Your Airplane	
	Weight (lbs)	Moment (lb - ins. /1000)	Weight ⋮	Moment ⋮
Licensed Empty Weight (Sample Airplane) ...	1305.5	49.5		
1 Oil - 8 Qts.*	15.0	-0.3	15.0	-0.3
2 Pilot & Front Passenger	340.0	12.2		
4 Fuel (22.5 Gal at 6#/Gal)	135.0	6.5		
5 Rear Passengers	340.0	23.8		
6 Baggage (or Passenger on Auxiliary Seat)	114.5	10.9		
7 Total Aircraft Weight (Loaded)	2250.0	102.6		

2 Locate this point (2250 at 102.6) on the center of gravity envelope, and since this point falls within the envelope the loading is acceptable.

*Note: Normally full oil may be assumed for all flights.

