Mass & Balance report.

Aircraft:

Date: 11/10/2022

Checked by:

Point	Weight (KG)	Arm (cm)	(Kg.Cm)	
LH Wheel	253	174,4	44123,2	
RH Wheel	248	174,4	43251,2	
Tail Wheel	32	644,4	20620,8	
Unusable fuel	0,7	203,2	142,24	
Balance corr	0,7	568,1	397,67	
Total / CG	534,4	120,5313	64411,91	
CG Basic Weight				120,5

	861			
	Pilot	Pax	Baggage	Fuel
Arms (Cm)	247,6	247,6	322,0	203,2

Allowed C/G

	%MAC	Aft of Datum
Normal	15% - 29%	199.8 – 220.5 cm
Aerobatic	15% - 25%	199.8 – 214.6 cm

Loadsheet

Case 1: MTOM

		Weight	Moment		
Pilot		85	21046		
Passenger		85	21046		
Fuel (ltr)	158	126,4	25684,48		
Baggage		30	9660		
Basic Weight		534,4	109431,9	CG:	
Total		860,8	186868,38		30,0

Case 2: Most Aft (Gross weight & minimum fuel)

		Weight	Moment		
Pilot		85	21046		
Passenger		85	21046		
Fuel (ltr)	19	15,2	3088,64		
Baggage		30	9660		
Basic Weight		534,4	109431,9	CG:	
Total		749,6	164272,54		219,1

Case 3: Most FWD (Standart pilot weight)					
		Weight	Moment		
Pilot		77	19065,2		
Passenger		77	19065,2		
Fuel (ltr)	158	126,4	25684,48		
Baggage		30	9660		
Basic Weight		534,4	109431,9	CG:	
Total		844,8	182906,78		216,5

Case 4: Most FWD (Minimum pilot weight)					
		Weight	Moment		
Pilot		45	11142		
Passenger		0	0		
Fuel (ltr)	158	126,4	25684,48		
Baggage		0	0		
Basic Weight		534,4	109431,9	CG:	
Total		705,8	146258,38		207,2

Case 5: Heavy pilot & pax, baggage, reduced fuel					
		Weight	Moment		
Pilot		104	25750,4		
Passenger		104	25750,4		
Fuel (ltr)	95	76	15443,2		
Baggage		30	9660		
Basic Weight		534,4	109431,9	CG:	
Total		848,4	186035,9		219,3

Case 6: Heavy pilot & pax, baggage, minimum fuel					
		Weight	Moment		
Pilot		104	25750,4		
Passenger		104	25750,4		
Fuel (ltr)	19	15,2	3088,64		
Baggage		20	6440		
Basic Weight		534,4	109431,9	CG:	
Total		777,6	170461,34		219,2

Case 6: Aerobatics					
		Weight	Moment		
Pilot		85	21046		
Passenger		85	21046		
Fuel (ltr)	150	120	24384		
Baggage		0	0		
Basic Weight		534,4	109431,9	CG:	
Total		824,4	175907,9		213,4

NB.
MAXIMUM BAGAGGE COMPARTMENT LOAD IS 45KG
ABOVE 30 KG OF BAGAGGE LOAD AFT C/G COULD BECOME AN ISSUE WITH LITTLE FUEL IN TANKS.