

ALPINE AEROTECH LTD.

ACTUAL WEIGHT RECORD - BELL HELICOPTER MODEL 412

Date Weighed: 19-Apr-08

Reg. # N412AT

Serial #: 36201

Weigh Scale Model: 920i-5A

Serial #: 1429000037

Calibration Date: 14-Dec.-08

Scale Readings (lbs)				Scale	Tare	Net	
L/H Fwd. Jackpoint	F.S.	61.69	B.L.	-30.00	1583	0	1583
R/H Fwd. Jackpoint	F.S.	61.69	B.L.	30.00	1554	0	1554
L/H Aft Jackpoint	F.S.	211.58	B.L.	-14.53	1945	0	1945
R/H Aft Jackpoint	F.S.	211.58	B.L.	14.53	2055	0	2055
Total				7137	0	7137	

* (in lateral calculations, - is left, + is right)

Longitudinal C.G., as weighed

$$CG = \frac{[Fwd FS \times (LH \text{ weight} + RH \text{ weight})] + [Aft FS \times (LH \text{ weight} + RH \text{ weight})]}{\text{Total weight}}$$

C.G. = **145.70 inches**

Lateral C.G., as weighted*

$$CG = \frac{(Fwd LBL \times LH \text{ weight}) + (Fwd RBL \times RH \text{ weight}) + [(Aft LBL \times LH \text{ weight}) + (Aft RBL \times RH \text{ weight})]}{\text{Total weight}}$$

C.G. = **0.10 inches**

Weight Empty Derivation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
As Weighed:	7,137.00	145.70	1,039,841.53	0.10	728.30
Add:					
Unusable Fuel	28.30	128.00	3,622.40	0.00	0.00
Ballast	140.00	-4.50	-630.00	0.00	0.00
Includes:				0.00	0.00
See Optional Equipment List				0.00	0.00
				0.00	0.00
				0.00	0.00
Operating Weight Empty	7,305.30	142.75	1,042,833.93	0.10	728.30

Weight Empty	7,305.30	142.75	1,042,833.93	0.10	728.30
+ Pilot & Co-Pilot	340.00	47.00	15,980.00	0.00	0.00
+ Passenger, Forward	680.00	87.00	59,160.00	0.00	0.00
+ Passenger, Aft	850.00	117.00	99,450.00	0.00	0.00
+ Fuel, Most Forward	472.00	127.60	60,227.00	0.00	0.00
Most Forward C.G.	9,647.30	132.44	1,277,650.93	0.08	728.30

Weight Empty	7,305.30	142.75	1,042,833.93	0.10	728.30
+ Pilot	170.00	47.00	7,990.00	22.00	3,740.00
+ Fuel, Most Aft	1,409.20	153.30	216,066.00	0.00	0.00
Most Aft C.G.	8,884.50	142.60	1,266,889.93	0.50	4,468.30

The described Maintenance has been performed in accordance with the applicable Airworthiness Requirements.

A.M.O. 93-00

Signature