



Complete Helicopter Services Pty Ltd
ABN 82 083 147 433
21 Valentine Ct Narangba Qld 4504
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AIRCRAFT WEIGHING SUMMARY

REASON FOR REPORT

Validation

Pages this Report 6

These "Owners Copies" are supplied to ensure compliance with CAO 100.7 para 5.2 (5) which requires that, "The owner or operator shall keep in a safe place on the ground, duplicate copies of all current approved loading data applicable to his aircraft."

Aircraft Type	Cessna C-310R		
Aircraft Registration	VH-ULF		
Aircraft Serial No.	310R1429		
Owner or Operator	Redcliffe Aero Club		
Aircraft Datum	Nose Jack Point		
Place	Caloundra Airport		
Scales Number	N/A		
Calibration Due			
Organisation	Complete Helicopter Services Pty Ltd		
Authority No.	A182138		
Work Order No.	CWC278	Date	19-Sep-20

LOAD DATA SHEET

Issue No.	Date of Expiry
SIXTEEN	19-Sep-23



Horizontal

Empty Weight	Arm	Moment
1751.4 kg	890.9 mm	1560377 kg.mm

VH-ULF		LDS: SIXTEEN		DATE	19-Sep-20		
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Determination of Empty Weight & Centre of Gravity

CONFIGURATION (refer also , to equipment list)	A	WEIGHT INCLUDES:	SIX SEATS
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Note 1: The difference between the two gross weights must not exceed 0.2% or 10kg (whichever is the greater) otherwise further weighings must be carried out until two consecutive weighings agree within this tolerance.

Note 2: Readings should be made to the nearest 1kg.

Prepared by the VALIDATION of cumulative data and not by weighing the aircraft

Data from LDS Fifteen Dated 25 Aug 2017	1751.40	890.90	1560377.00		
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Remarks

Includes Unusable Fuel & Full Oils


Weight Control Officer A182138



Determine Basic Weight		LONGITUDINAL				
ITEM	WEIGHT	ARM	MOMENT			
EMPTY WEIGHT	1751.40	890.90	1560377.00			
BASIC WEIGHT	1751.40	890.93	1560377.00			

Operating Weight		FOUR SEATS				
BASIC WEIGHT	1751.40	890.90	1560377.00			
Remove Seats 5 & 6	-15.30	2591.00	-39642.30			
Operating Weight Config (B)	1736.10	875.95	1520734.70			

Operating Weight						
BASIC WEIGHT	1751.40	890.93	1560377.00			
Operating Weight Config (C)	1751.40	890.93	1560377.00			

DETERMINE MAX & MINIMUM EMPTY C of G AND ARM FOR REWEIGH

.5% or 10kg which ever is **greater** = .5% +/- empty weight

Max Take Off weight kg = MTOW 12.5

2% or 5mm which ever is the Greater = 2% +/- mm C of G

HORIZONTAL C of G 5.90 5.9


Weight Control Officer A182138

Date 19-Sep-20

LOAD DATA SHEET

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Complete Helicopter Services Pty Ltd



Aircraft Type Cessna C-310R S/N 310R1429 Aircraft Reg VH-ULF

Approved loading system Cessna C-310R Approved Flight Manual and Supplements
Load Chart BC/C310R/3

AUTHORISED	DATE	DATE OF EXPIRY	ISSUE
A. Herrmann	19-Sep-20	19-Sep-23 SUBJECT TO C.A.O. 100.7	SIXTEEN



Prepared by the VALIDATION of cumulative data and not by weighing the aircraft

ITEM	Weight KG	ARM (mm)	MOMENT	CONFIGURATION (ALSO SEE EQUIPMENT LIST)
BASIC WEIGHT	1751.4	891	1560377	SIX SEATS
Config (B)	1736.1	876	1520735	FOUR SEATS

IMPERIAL				
ITEM	WEIGHT (lb)	ARM (in)	MOMENT	CONFIGURATION (ALSO SEE EQUIPMENT LIST)
BASIC WEIGHT	3861.1	35.1	135433	SIX SEATS
Config (B)	3827.4	34.5	131993	FOUR SEATS

THE ABOVE WEIGHTS INCLUDE:

EMPTY WEIGHT: UNUSABLE FUEL & FULL ENGINE OILS

LOAD SYSTEM

- 1) REFER TO FLIGHT MANUAL & SUPPLEMENTS FOR LOAD LIMITATIONS.
- 2) Load Chart BC/C310R/3

Load Data Sheet Page 3 Issue 12 Remains Current (use of Chart Instructions)

NOTE: Flight Manual Takes Precedence if any variance with Load Chart



WORK ORDER CWC278	DATUM Horizontal Nose Jack Point
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List of items included in the empty weight of aircraft

Aircraft Registration

Type

Issue No.

Date

VH-ULF

Cessna C-310R

SIXTEEN

19-Sep-20

Details of Configuration

SIX SEATS



ENGINES (Type)

Continental	IO-520	2
Propeller McCauley	3 Blade	2

COMPASSES

Magnetic		1
Remote	KCS55	1

GAUGES/ THEROMETERS

Engine Oil Pressure/ Temp/ CHT		2
Manifold Pressure	Duplex	1
Voltmeter/ Amp		1
CHT Temp.		0
EGT	Digital Dual	1
Fuel Contents	Dual	1
Fuel Flow	Dual	1
Outside Air Temp.		1
Suction	Dual	1
Tacho	Dual	1
Prop Amps		1
Oxygen Pressure		1
Prop Sync		1

FLUID TANKS/ Qty

Fuel, Main	Unusable 5.44 kg	2
Fuel, Aux	Unusable 2.72 kg	2
Fuel, Wing Locker	Unusable 2.72 kg	2
Oil, Hydraulic		Full
Oil, Lubricating		Full

LIGHTS

Anti-Collision		1
Instrument	A/R	2
Landing		2
Map reading		2
Navigation		3
Wing Ice		2
Taxi		1
Strobe		3
Wing Courtesy		1

RESTRAINT EQUIPMENT

Lap Sash inertia		2
Lap		4

ELECTRICAL EQUIPMENT.

Battery		1
Alternators		2
External Power		1
Starter		2

INST/ INDICATORS

EFD Aspen EFD1000		1
Airspeed		1
Attitude Indicator		2
Altimeters		2
Directional Gyro		0
Vertical Speed Indicator		1
Clocks		1
Flight Hour		1
Turn Co-ordinator		1
Trim Indicator		3
Slip Indicator		0
Stall Warning		Yes
Wing Flap Ind		1
VOR/GS Indicator		1

RADIO EQUIPMENT (Type)

GPS/NAV/COM	GNS430	1
NAV/COM	KX155	1
Transponder	GTX330	1
Audio	KMA24H	1
HF	Codan 2000	1
Radar	RDS81	1
ELT	Artex 406	1
Cabin Speakers		1
ADF	KR87	1

MISCELLANEOUS EQUIPMENT

Dual Controls		Yes
Auto Pilot	S-Tec 55X	1
Pitot Heat		1
Vacuum Pumps		2
Fixed Ballast		0
Fire Ext		1
Landing Gear Ind Lights		4
Altitude Alert		0
Assigned Alt Ind		1
Combustion Heater		1
Flight Control Locks		1
Carpet Cabin Partial		1
Check List		1
Carpet Nose Locker		Yes
Micro Vortex Kit		1

DISPOSABLE LOAD LIST

Flight Documents		1
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Weight Control Officer

Signature

LOAD DATA SHEET - PAGE 3 OF 3 - LOADING SYSTEM

Aeroplane Type:..... CESSNA 310R

Registration Marking:..... **VH-ULF** Serial No: 310R1429

ISSUE:..... TWELVE	DATE:..... 22.07.11
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**REFER TO LOAD CHART BC/C310R/3 CESSNA 310R DATED 25.7.99
VORTEX KIT & GROSS WEIGHT PER STC SA5668NM**

1. Use standard trim sheet procedures. Enter top of chart using current Basic EMPTY empty Weight and Arm obtained from the Load Data Sheet.
2. Total load weights in left hand column obtaining Zero Fuel Weight and Take-off Weight.
Draw horizontal lines on the C.G. Limits Graph at the bottom of the chart.
3. From the Basic Weight Versus Arm point at the top of the chart, draw a line VERTICALLY down until it intersects one of the oblique lines on the first load item scale. **(NOTE: Crew has NIL Index scale)**
4. Move HORIZONTALLY along the load item scale in the direction of the arrow and mark a point appropriate to the load indicated in the left hand column. [e.g. with 50 Kg/Div a 100 Kg load = 2 Div.]
5. Draw a VERTICAL line down to the next load item scale and repeat the above process. (Exercise care in plotting values of segments, noting that Passenger and Baggage segments are 50 Kg)
6. Proceed VERTICALLY down the load item scales, moving to left or right as indicated by the arrows and marking scale divisions as appropriate to each load.
7. From the last cabin load item scale draw a line VERTICALLY down to intersect the Zero Fuel line previously drawn on the limits graph.
8. Continue down to the fuel scales and mark off the appropriate load, noting that Fuel has 100 Kg segments, then draw a line VERTICALLY down from the last fuel point to intersect the Take-off Weight line previously drawn on the limits graph.
9. The two intersection points above must not exceed the boundaries of the limits graph (heavily shaded). If either point does, then the load must be rearranged and loading rechecked with steps 2 to 8.

*****DO NOT EXCEED MAXIMUM WEIGHTS SHOWN ON THE CHART*****

NOTE: MAXIMUM TAKE-OFF WEIGHT 2576 Kg

MAXIMUM LANDING WEIGHT 2449 Kg

ZERO FUEL WEIGHT VARIES UP TO 2404 Kg

Aerovox Pty. Ltd.
BRUCE CHESOLD
AUTHORITY NUMBER AN-9
PHONE: 9755 7104 FAX: 9755 7126
MOBILE: 0412 58 5551

LOAD CHART BC/C310R/3 CESSNA 310R

BC/310R/3 25th JULY 1999

*** VORTEX KIT STC SA5668NM ***

BASIC WEIGHT	
PILOT/CO-PILOT	
PAX ROW 2/CARGO A	
PAX ROW 3/CARGO B	
NOSE BAGG (MAX 159 Kg EA)	
WING BAGG (MAX 54 Kg EA)	
REAR BAGG (MAX 72 Kg)	
ZERO FUEL WEIGHT	
MAIN FUEL (TIPS)	
AUX FUEL (WINGS)	
NACELLE FUEL	
TAKE-OFF WEIGHT	
FLIGHT FUEL	
LANDING WEIGHT	

Kg PER DIVISION

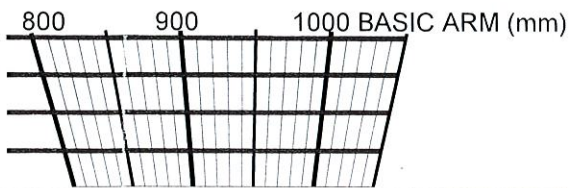
50
50
50
50
50

100
100
100

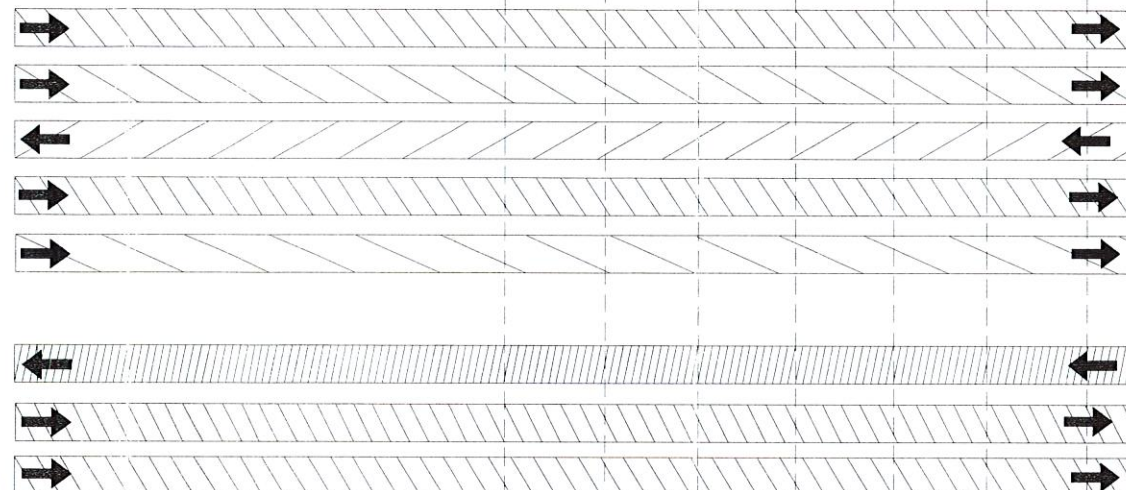
NIL SCALE

BASIC WEIGHT (Kg)

1900
1800
1700
1600



NIL SCALE



GROSS WEIGHT (Kg)

2500
2400
2300
2200
2100
2000
1900

ZERO FUEL WEIGHT LINE

Aeroweigh Pty. Ltd.
BRUCE WILSON
AUTHORITY NO. 10059-AN-9
PHONE: 9755 7104
MOBILE: 0442 59 5551

FWD LIMIT

AFT LIMIT

CENTRE OF GRAVITY LIMITS

MAXIMUM WEIGHTS

TAKE-OFF 2576 Kg LANDING 2449 Kg

MAXIMUM ZERO FUEL WT VARIES UP TO 2404 Kg

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BAGGS	<input type="checkbox"/>	CARGO A	CARGO B	BAGGS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BAGGS	<input type="checkbox"/>	CARGO A	CARGO B	BAGGS

MAX CARGO IN LIEU OF ROW TWO SEATS
170 Kg

MAX CARGO IN LIEU OF ROW THREE SEATS
170 Kg

C Aeroweigh Pty Ltd