

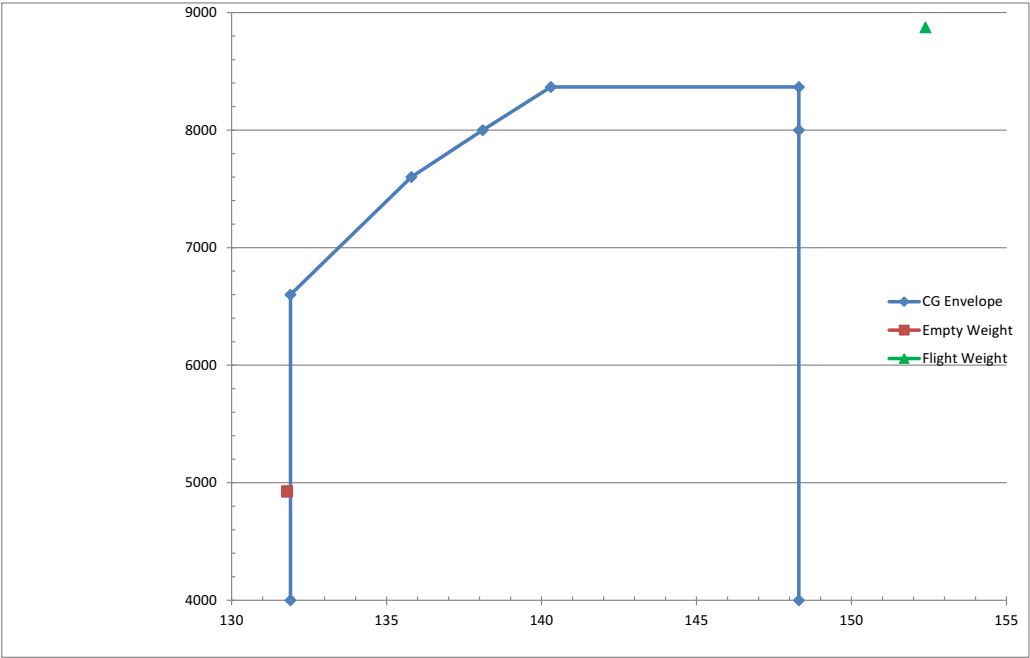
Otter Weight & Balance: 1 Date: 9/21/2015

TURBINE WEIGHT & BALANCE	WEIGHT	X	WX
Empty Weight and CG	4926.80	131.79	649302.97
Fuel- front	415.40	121.00	50263.40
center	683.40	154.00	105243.60
aft	134.00	184.00	24656.00
Pilot	259.00	98.00	25382.00
Copilot	211.00	98.00	20678.00
1st S	186.00	137.00	25482.00
1st P	200.00	137.00	27400.00
2nd S	238.00	165.00	39270.00
2nd P	225.00	165.00	37125.00
3rd S	180.00	195.00	35100.00
3rd P	0.00	195.00	0.00
4th S	257.00	218.00	56026.00
Rear S	210.00	250.00	52500.00
Rear P	290.00	250.00	72500.00
Baggage	460.00	286.00	131560.00
TOTALS:	8875.60	152.38	1352488.97
max gross wt	8367.00		
	508.60		

62 gals.= 415.4
102 gals= 683.4
51 gals.= 341.7
empty
inc. 47lb start pac

aft bulkhead 308. baggage is 264 to 308 so split is 286

Seaplane				
weight	fwd limit	aft limit		
6600	131.9	148.3	131.9	4000
7600	135.8	148.3	131.9	6600
8000	138.1	148.3	135.8	7600
8367	140.3	148.3	138.1	8000
			140.3	8367
			148.3	8367
			148.3	8000
			148.3	4000
Landplane				
weight	fwd limit	aft limit	Aft without mod 3/746	
6600	131.9	152.2	151.4	
7600	135.8	152.2	151.4	
8000	135.8	152.2	149.8	
8367				



Weight & Balance
DeHavilland DHC-3T
N928RK
S/N 61

11 June 2014
Supersedes W&B computations dated 24 May 2014

	Weight	Arm	Moment
Previous Empty Weight- Floats	4921.8	131.85	648955.9
Installed the following equipment:			
1. Lone Star Aviation LS03-05001 Converter	1.5	61.00	91.5
2. NAT AA34-200 Universal Radio Interface	0.6	61.00	36.6
3. Icom IC-M412 VHF Transceiver	2.4	69.00	165.6
4. Comant CI 177 VHF Antenna	0.5	117.00	58.5
Totals	4926.8	131.79	649308.1

New: Empty Weight- Floats	4926.8
Center of Gravity	131.79
Useful Load	3073.2

Signature

[Redacted Signature]

Certificate

[Redacted Certificate]

Weight & Balance
DeHavilland DHC-3T
N928RK
S/N 61

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Totals	4926.8	131.79	649308.1
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New: Empty Weight- Floats	4926.8
Center of Gravity	131.79
Useful Load	3073.2

Signature _____

Certificate _____



Brant Aero, Box 274

Brantford, Ontario
Canada N3T 5M8

Quality Avionics since
1972
AMO# 10-74

Pg 2 of 2

EQUIPMENT LIST

REG: N928RK

SERIAL #61

MODEL: DHC-3 Otter

WEIGHT

ARM

ADD:

Garmin GDU620 PFD
Garmin GRS77 AHRS
Garmin GDC74A ADC
Garmin GMU44 Magnetometer
Garmin GTN750 GPS/Nav/Com
Garmin GTN650 GPS/Nav/Com
Garmin GTX327 Transponder
Garmin GDL88 ADS-B
Garmin GA35 WAAS GPS Antenna
PS Engineering PMA 7000B Audio Panel
PS Engineering 11606 Expansion Module
Avidyne TAS605 TCAD Processor
Avidyne Single Blade Top Antenna
Avidyne Twin Blade Bottom Antenna
Avidyne Transponder Coupler
L-3 WX-500 Stormscope Processor
L-3 WX-500 Stormscope Sensor
Bendix/King KR87 ADF
Bendix/King KA44B ADF Antenna
ACK E-04 406 ELT
ACK E-04 406 ELT Antenna
ACK RC-200 Remote Switch
ACK ELT Remote Buzzer
Trans-Cal SSD120-30N Blind Encoder
Comant CI-120-G/S VOR/Loc/G/S Antenna
Comant CI2580-200 GPS/VHF Antenna
Comant CI-102 Marker Beacon Antenna
Comant CI-105 Transponder Antenna
Comant CI-105 Transponder Antenna
D & M DMC70-1/A Com Antenna
MaxDim 9100-001A Dimmer
MaxDim 9100-001A Dimmer
UMA Inverter
Max-Vis EVS-600 FLIR

6.38
3.50
2.04
0.72
9.30
7.00
3.00
3.67
0.47
1.50
0.45
6.80
0.66
0.75
0.50
2.50
0.84
3.20
4.20
1.80
0.13
0.07
0.09
0.38
2.80
0.60
0.60
0.24
0.24
0.75
0.10
0.10
0.20
1.20

Pilot Flight Panel - 69
Hell Hole - Copilot Side 79
Hell Hole - Centre - 79.75
Empenage aft of rear avionics trays - Pilot side - 344.5
Co-Pilot Flight Panel - 69
Co-Pilot Flight Panel - 69
Lower Co-Pilot Panel - 69
Rear avionics tray - Centre - 327.25
Directly over Pilot's head - 117
Co-Pilot Flight Panel - 69
Lower Co-Pilot Panel - 69
Hell Hole - Pilot Side - 76.5
Centre roof in cockpit - 115
Forward removable hell hole panel - 71.75
Under flight controls, level with panels - 70.5
Rear avionics tray - Pilot Side - 329.75
Just forward of Rear Avionics Tray 313.5
Lower Co-Pilot Panel - 69
Centre cabin roof just forward of passenger doors - 211
Rear avionics tray - Co-Pilot Side - 327.25
Directly Above Rear avionics tray - 324.5
Pilot Flight Panel - 69
Bottom side of flange between pilot panel and c/b panel - 69
Mounted to back of Lower Co-Pilot Panel - 73.35
Tail - 460
Cabin roof above 2nd row passengers - copilot side - 150.8
Aft of rear avionics tray - 345.5
Directly beside aft hell hole access - 91
Directly beneath rear avionics tray - 326.5
Cabin roof above 2nd row passengers - pilot side - 150.3
Just above emergency fuel shut off - 75.5
Just above emergency fuel shut off - 76
1" aft of firewall - pilot side - 61
Left wing, inside of first inspection panel behind spar - 152.8

* **Added 11 June 2014 :

Lone Star Aviation LS03-05001 Converter
NAT AA34-200 Universal Radio Interface
Comant CI 177 VHF Antenna
Icom IC-M412 VHF Transceiver

1.5
0.63
0.5
2.4

61
61
117
69

Weight and Balance Report

DHC-3T

N928RK

SN 61

Aircraft weighed in standard fashion on wheels, in a closed hangar
 Wheel points used for scale readings, no fuel, full oil, full hydraulic fluid
 Type of scales used electronic

Scale	Weight	Tare	Net	Arm	Moment
LH	2035	0	2035.00	108.30	220390.5
RH	2025	0	2025.00	108.30	219307.5
Rear Tail	285	0	285.00	437.70	124744.5
Total			4345.00	129.91	564442.5

N928RK

SN 61

DHC-3T

Basic Empty Weight

Arm

Totals

New Empty Weight

New C of G

Maximum C of G Limits for landplane

131.9 to 152.2 at 6600 lbs or less

135.8 to 152.2 at 7600 lbs

135.8 to 152.2 at 8000 lbs

Reference DHC-3 Flight Manual and TTC FMS-12JR AFM Supplement for W & B Limitations, Landing Gear Configuration and Loading Diagrams to ensure Center of Gravity limits are not exceeded

The maintenance described has been performed in accordance with the applicable standards of airworthiness.

Date:

May 24/14
~~26 Aug. 2013~~

Signature:

[Redacted Signature]

Lic #

[Redacted License Number]

AMO 69-91

Prepared by

Recon Air Corporation

[Redacted]
 Geraldton, Ontario
 POT 1M0

Weight and Balance

N928RK

SN 61

DHC-3T

Floats		
Weight	Arm	Moment
Basic Empty Weight	4345.00	129.91 564442.50
Remove		
Wheel main u/c struts	-364.80	-110.30 -40237.40
Tail wheel with hydraulic shock absorber	-41.90	-431.40 -18075.60
<i>Revised</i>		
<i>11 June 2014</i>		
Add		
Bristol 7850 float & attach gear	915.00	138.70 126910.50
LH Rear ladder	30.00	230.80 6924.00
RH Rear ladder	5.00	232.50 1162.50
Front ladders	20.00	91.50 1830.00
Ventral fin	13.50	444.40 5999.40
Totals	4921.80	131.85 648955.90

New Empty Weight

4921.80

New C of G

131.85

Maximum C of G Limits for Floatplane

131.8 to 148.3 at 6600 lbs or less

135.8 to 148.3 at 7600 lbs

138.1 to 148.3 at 8000 lbs

Reference DHC-3 Flight Manual and TTC FMS-12JR AFM Supplement for W & B Limitations, Landing Gear Configuration and Loading Diagrams to ensure Center of Gravity limits are not exceeded

The maintenance described has been performed in accordance with the applicable standards of airworthiness.

Date:

May 24/14
~~26 Aug, 2013~~

Signature:

[Signature]

Lic #

[Redacted]

AMO 69-91

Prepared by

Recon Air Corporation

[Redacted]
 Geraldton, Ontario
 POT 1M0

WEIGHT & BALANCE REPORT DHC-3T

Registration N928RK

Serial Number 61

Date of Weighing ~~26-Aug-13~~
May 24/14

Condition of aircraft at time of weighing

Aircraft on wheels

Fuel System drained - residual fuel in tank lines and engine

Oil system - full

Hydraulic system - full

Flying surfaces neutral

All fairings positioned

Gust locks stowed

Hangar door closed and fans off

Aircraft level

Also see equipment list

Equipment List for Weight and Balance Report

DHC-3T

N928RK

SN61

ITEMS MARKED X NOT INSTALLED AT TIME OF WEIGHING

MODIFICATIONS INSTALLED

	WEIGHT	ARM	MOMENT
Texas Turbine Conversion STC SA09866SC	1216.76	0.519	631.09
Gross Weight Increase 8367 SA00438NY	25	155.5	3887.5
102 Wing Stall Plates DHC-3 Mod 3/272	3.75	152	520
104 Dual wing stall DHC-3 Mod 3/746	0.07	120.2	60.1
Twin Seaplane Float STC SA01995NY	915	138	126910.5
Pulslite System STC SA4005NM	2	145.3	290.6
HID Landing light STC SA02212AK	2.2	131	288.2
Stol Kit STC SA00287NY	67	124.7	8358

UNDERCARRIAGE LANDING GEAR

200 11.00x12 Main Wheel Tires & Tubes (2)	120	108.3	12996
200 6.00x6 Tail Wheel Tire & Tube (1)	13	437.7	5690
Wheel main u/c including struts	364.8	110.3	40237.4
Tail wheel u/c complete with hydraulic shock absorber	41.9	431.4	18075.6
Tail wheel steering unit	16	430	6880
300 Ski Installation			
Main Skis (2) c/w check cables	267.1	96.7	25828.57 X
" " ski c/w check cables	21	435.4	9143.4 X

W&B

Control unit and brackets	6.1	99	603.9 X
Hydraulic reservoir	1	98	98 X
Hydraulic lines	2.5	107	268 X
Hydraulic fluid	7	98	686 X
EDO 7170 Float Installation c/w ventral fin & steps	849	145.2	123274.8 X
EDO 7170 Aft float stretch kit STC SF95-1 STC96-9	26	302	7852 X
EDO 7170 Water line floatation elements STC SF95-1	24	135	3240 X
Bristol 57-7850A Float installation & attach gear	915	138.7	126910.5
Ventral Fin	13.5	444.4	5999.4
Front ladders	20	91.5	1830
LH Rear ladder	30	230.8	6924
RH Rear ladder	5	232.5	4650

COCKPIT/CABIN

Pilot seat	15.4	105	1617
Co-Pilot seat adjustable	18	105	1890
Dual Rudder Pedals	7.3	67	489.1 X
Control locks (2)	1.7	98	166.6
Cabin seat & cushions			
1st STBD	8.2	136	1115.2
1st PORT	8.2	138	1131.6
2nd STBD	8.2	163	1336.6
2nd PORT	8.2	168	1377.6
3rd STBD	8.2	190	1558
3rd PORT	8.2	199	1631.8
4th STBD	8.2	218	1787.6
Rear PORT	8.5	250	2125
Rear STBD	8.5	250	2125

FLIGHT INSTRUMENTS

Airspeed	1	69	69
Artificial Horizon	1.5	69	103.5
Altimeter	1	69	69
Turn & Bank	0.9	69	62.1
Directional Gyro	1.5	69	103.5
V.S.I.	0.9	69	62.1
Fuel gauge	1	69	69
Suction	0.4	69	27.6

AVIONICS

See Attached

NOTE: X denotes not weighed in aircraft



Brant Aero, Box 274

Brantford, Ontario
Canada N3T 5M8

Quality Avionics since
1972
AMO# 10-74

Pg 2 of 2

EQUIPMENT LIST

REG: N928RK

SERIAL #61

MODEL: DHC-3 Otter

ADD:

	WEIGHT	ARM
Garmin GDU620 PFD	6.38	Pilot Flight Panel - 69
Garmin GRS77 AHRS	3.50	Hell Hole - Copilot Side 79
Garmin GDC74A ADC	2.04	Hell Hole - Centre - 79.75
Garmin GMU44 Magnetometer	0.72	Empenage aft of rear avionics trays - Pilot side - 344.5
Garmin GTN750 GPS/Nav/Com	9.30	Co-Pilot Flight Panel - 69
Garmin GTN650 GPS/Nav/Com	7.00	Co-Pilot Flight Panel - 69
Garmin GTX327 Transponder	3.00	Lower Co-Pilot Panel - 69
Garmin GDL88 ADS-B	3.67	Rear avionics tray - Centre - 327.25
Garmin GA35 WAAS GPS Antenna	0.47	Directly over Pilot's head - 117
PS Engineering PMA 7000B Audio Panel	1.50	Co-Pilot Flight Panel - 69.69
PS Engineering 11606 Expansion Module	0.45	Lower Co-Pilot Panel - 69
Avidyne TAS605 TCAD Processor	6.80	Hell Hole - Pilot Side - 76.5
Avidyne Single Blade Top Antenna	0.66	Centre roof in cockpit - 115
Avidyne Twin Blade Bottom Antenna	0.75	Forward removable hell hole panel - 71.75
Avidyne Transponder Coupler	0.50	Under flight controls, level with panels - 70.5
L-3 WX-500 Stormscope Processor	2.50	Rear avionics tray - Pilot Side - 324.75
L-3 WX-500 Stormscope Sensor	0.84	Just forward of Rear Avionics Tray 313.5
Bendix/King KR87 ADF	3.20	Lower Co-Pilot Panel - 69
Bendix/King KA44B ADF Antenna	4.20	Centre cabin roof just forward of passenger doors - 211
ACK E-04 406 ELT	1.80	Rear avionics tray - Co-Pilot Side - 327.25
ACK E-04 406 ELT Antenna	0.13	Directly Above Rear avionics tray - 324.5
ACK RC-200 Remote Switch	0.07	Pilot Flight Panel - 69
ACK ELT Remote Buzzer	0.09	Bottom side of flange between pilot panel and c/b panel - 69
Trans-Cal SSD120-30N Blind Encoder	0.38	Mounted to back of Lower Co-Pilot Panel - 73.25
Comant CI-120-G/S VOR/Loc/G/S Antenna	2.80	Tail - 460
Comant CI2580-200 GPS/VHF Antenna	0.60	Cabin roof above 2 nd row passengers - copilot side - 150.8
Comant CI-102 Marker Beacon Antenna	0.60	Aft of rear avionics tray - 345.5
Comant CI-105 Transponder Antenna	0.24	Directly beside aft hell hole access - 91
Comant CI-105 Transponder Antenna	0.24	Directly beneath rear avionics tray - 326.5
D & M DMC70-1/A Com Antenna	0.75	Cabin roof above 2 nd row passengers - pilot side - 150.3
MaxDim 9100-001A Dimmer	0.10	Just above emergency fuel shut off - 75.5
MaxDim 9100-001A Dimmer	0.10	Just above emergency fuel shut off - 76
UMA Inverter	0.20	1" aft of firewall - pilot side - 61
Max-Vis EVS-600 FLIR	1.20	Left wing, inside of first inspection panel behind spar - 152.8