



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

ORC
Central Rating Office
issuing certificates for
CANADA



Certificate

Number **047/16**
Issued On **29.4.2016**.
ORC Ref **CAN00062722**
VPP Ver. **2016 1.01**
Valid until **31.12.2016**.

Crew Weight

Declared **1,192kg**
Default* **1,601kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin	GPH 469.2	1.2788
Non Spin	OSN 462.9	1.2963
N/S Perf. Line	-30.6	0.745

Sails Limitations

Headsails **8** Spinnakers **4**

Spinnaker configuration

Symmetric: **No**
Asymmetric: **Yes 247.15**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **16.598**

Stability

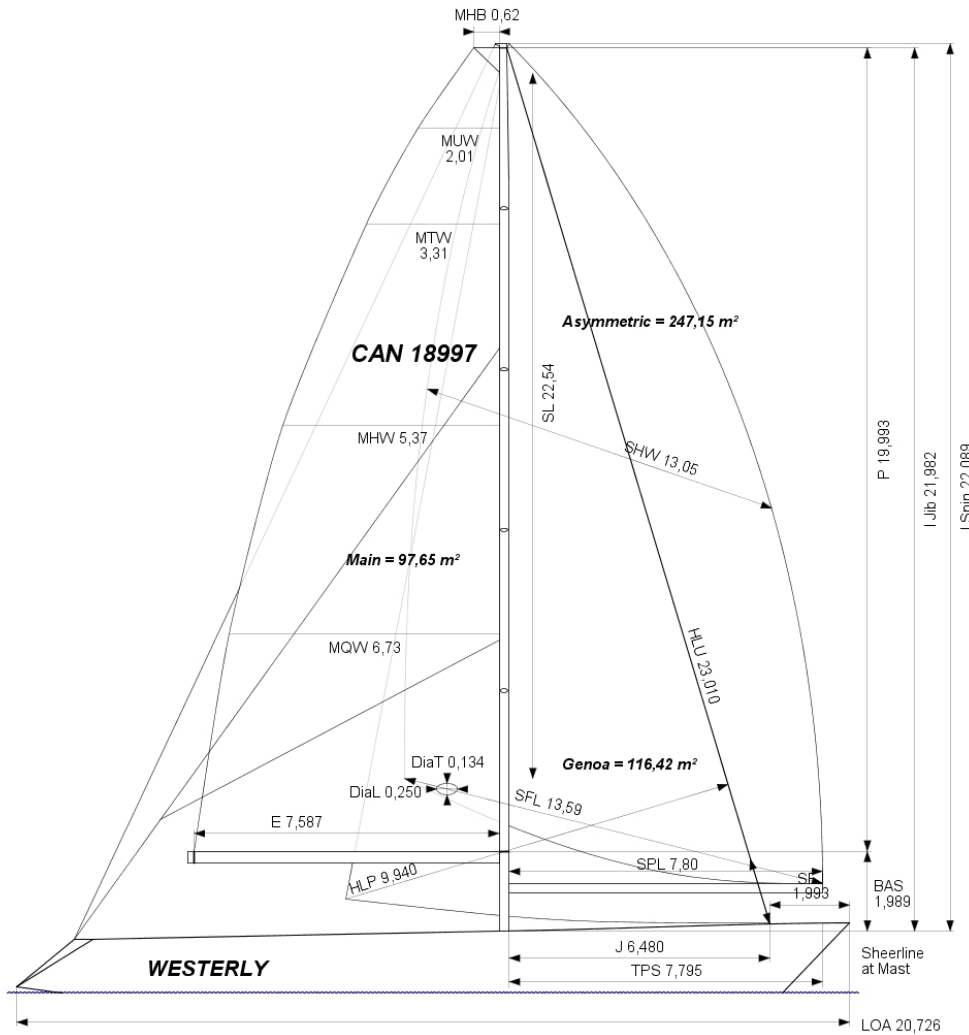
LPS (Estimated): **118.7°**
Stability Index: **122.6**
OSR Category: **N/A**

Owner

Stuart Dahlgren
2212 Harbour Rd
Sidney, BC V8L 2P6
CANADA

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT	GPH	HULL
Name Westerly Sail Nr CAN 18997	451.1	Data File CAN18997.dxt LOA 20.726m Offset File US19253NK.off MB 4.596m Displacement 10,541kg Draft 3.093m
CLASS Class Santa Cruz 70 Designer Bill Lee Builder Lee / Santa Cruz Series 09.1987 Age Date 09.1987 Age Allowance 0.487%	IMS Division Performance Dynamic All. 0.007% Fwd Accom. No Construction Carbon Fiber Rigging No Aramid Core No Crew Arm Ex 0.00 Carbon Rudder Yes Light Stanchions No	IMS L 18.301m VCGD -0.137m Sink 39.68kg/mm RL 14.892m VCGM -0.113m WS 48.87m2 LSM0 18.075m Displacement/Length ratio 1.7850
COMMENTS	Water Ballast 0 Trim Tab No	
PROPELLER Installation Shaft exposed PRD 0.600 Type Folding 3 blades PBW 0.530 PIPA 0.0069	CENTERBOARD N/A	
SCORING OPTIONS		
	OFFSHORE COASTAL / LONG DISTANCE	INSHORE WINDWARD / LEEWARD
Time On Distance	442.3	506.3
Time On Time	1.3565	1.3332
Performance Line	PLT 0.822 PLD -10.6	PLT 1.074 PLD 174.6
Triple Number	Low 1.2807 Medium 1.6958 High 1.9764	Low 0.9534 Medium 1.3205 High 1.5745



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ORC Club Certificate Appendix

BOAT

Name **Westerly** Certificate Number **047/16**
 Sail Nr **CAN 18997** Issued On **29.4.2016.**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	800.5	654.5	586.9	547.2	526.3	510.7	494.8
52°	502.0	416.9	382.3	366.5	358.0	353.5	341.3
60°	454.7	385.6	362.7	350.9	342.3	336.7	321.7
75°	411.3	360.0	340.8	326.8	316.7	309.4	298.9
90°	402.7	352.7	325.6	308.7	297.2	288.8	277.3
110°	438.1	366.3	337.5	309.7	287.1	269.1	247.7
120°	488.3	389.3	345.4	316.6	298.0	276.9	242.8
135°	559.0	432.0	367.2	334.8	302.8	274.8	237.3
150°	673.4	519.2	427.2	376.2	340.1	314.1	260.6
Run VMG	777.6	599.5	493.3	434.4	396.1	365.0	300.9

Selected Courses

Windward / Leeward	789.0	627.0	540.1	490.8	461.2	437.8	397.9
Circular Random	631.8	506.0	437.4	396.2	369.1	349.6	320.9
Ocean for PCS	798.2	607.3	498.8	431.2	385.6	351.9	302.0
Non Spinnaker	660.9	528.1	454.9	410.4	381.2	360.4	331.5

Velocity Prediction in Knots for True Wind Speeds

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	47.1°	45.4°	43.7°	42.0°	40.7°	40.2°	39.6°
Beat VMG	4.50	5.50	6.13	6.58	6.84	7.05	7.28
52°	7.17	8.63	9.42	9.82	10.05	10.19	10.55
60°	7.92	9.34	9.92	10.26	10.52	10.69	11.19
75°	8.75	10.00	10.56	11.02	11.37	11.63	12.04
90°	8.94	10.21	11.06	11.66	12.11	12.46	12.98
110°	8.22	9.83	10.67	11.63	12.54	13.38	14.54
120°	7.37	9.25	10.42	11.37	12.08	13.00	14.83
135°	6.44	8.33	9.80	10.75	11.89	13.10	15.17
150°	5.35	6.93	8.43	9.57	10.59	11.46	13.81
Run VMG	4.63	6.00	7.30	8.29	9.09	9.86	11.96
Gybe Angles	140.9°	141.2°	144.0°	149.7°	154.9°	151.2°	143.3°