



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

ORC
Central Rating Office
issuing certificates for
CANADA



Certificate

Number **033/16**
Issued On **30.4.2016**.
ORC Ref **CAN00062730**
VPP Ver. **2016 1.01**
Valid until **31.12.2016**.

Crew Weight

Declared **900kg**
Default* **1,191kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin	GPH 496.9	1.2075
Non Spin	OSN 487.7	1.2302
N/S Perf. Line	-22.7	0.722

Sails Limitations

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

Spinnaker configuration

Symmetric: **No**
Asymmetric: **Yes 270.54**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length

CDL = **14.740**

Stability

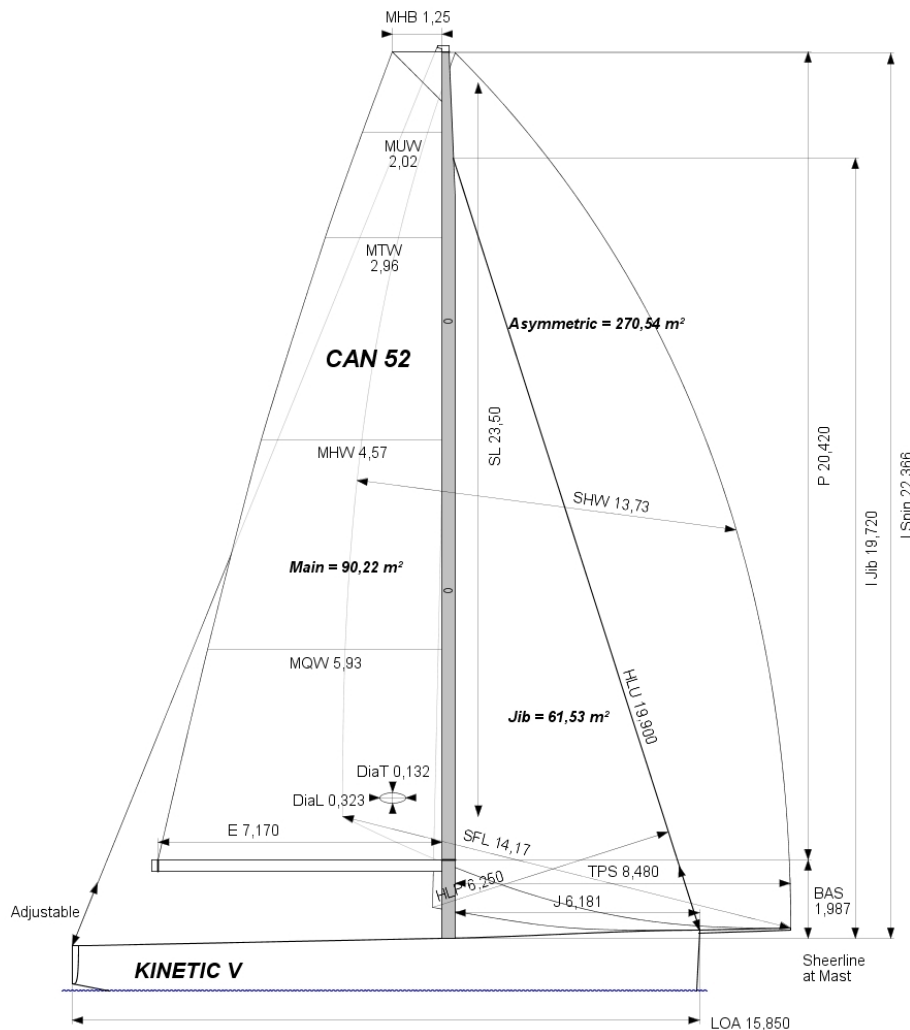
LPS (Estimated): **142.6°**
Stability Index: **145.3**
OSR Category: **N/A**

Owner

David Sutcliffe
3141 Capilano Crescent
British Columbia
V7R 4X5 North Vancouver Canada

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

Signature



BOAT		GPH		HULL		
Name	Kinetic V		462.7	Data File	CAN52.dxt	
Sail Nr	CAN 52			Offset File	US31147G.off	
				Displacement	7,907kg	
				LOA	15.850m	
				MB	4.096m	
				Draft	3.211m	
				IMS Division	Performance	
				Dynamic All.	0.001%	
				Fwd Accom.	No	
				Construction	Carbon	
				Fiber Rigging	No	
				Aramid Core	No	
				Crew Arm Ex	Yes	
				Carbon Rudder	Yes	
				Light Stanchions	No	
				IMSL	15.029m	
				VCGD	-0.790m	
				Sink	30.17kg/mm	
				RL	14.449m	
				VCGM	-0.782m	
				WS	39.77m2	
				LSM0	14.690m	
				Displacement/Length ratio	2.4943	
				Water Ballast	0	
				Trim Tab	No	
				CENTERBOARD		
				N/A		
COMMENTS						
New Fuel Tank-75.7 l measured full Centroid at l= 11.651, t= 0, z= 0 Old fuel tank decommissioned						
PROPELLER						
Installation	Strut	PRD	0.454			
Type	Folding 2 blades	PBW	0.116			
		PIPA	0.0008			
SCORING OPTIONS						
	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	451.1			510.6		
Time On Time	1.3302			1.3221		
Performance Line	PLT	PLD		PLT	PLD	
	0.858	13.1		1.199	241.6	
Triple Number	Low	Medium	High	Low	Medium	High
	1.2758	1.6386	1.9048	0.9755	1.3074	1.5436



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ORC Club Certificate Appendix

BOAT	
Name	Kinetic V
Sail Nr	CAN 52
Certificate Number	033/16
Issued On	30.4.2016.

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	792.0	645.6	585.5	555.5	534.7	521.4	512.4
52°	509.7	424.5	400.5	389.2	381.4	371.8	361.2
60°	473.2	405.1	385.8	373.6	364.3	354.4	340.1
75°	441.4	390.3	364.0	346.8	335.5	327.8	308.9
90°	440.3	390.0	357.6	329.6	313.3	302.5	288.2
110°	460.6	393.5	370.0	345.8	321.5	293.6	254.7
120°	477.9	396.3	363.6	341.3	319.2	295.9	257.7
135°	538.5	422.4	380.1	341.6	307.0	285.7	248.1
150°	646.8	505.1	429.0	382.6	354.8	324.0	255.4
Run VMG	746.9	583.2	495.4	445.8	409.6	374.1	294.9

Selected Courses							
Windward / Leeward	769.4	614.4	540.5	500.6	472.2	447.7	403.6
Circular Random	638.7	515.7	449.5	409.6	382.8	362.4	330.4
Ocean for PCS	791.5	609.5	506.8	442.7	398.5	364.8	313.1
Non Spinnaker	696.5	558.1	482.0	435.6	404.6	382.2	349.9

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	44.0°	42.7°	40.3°	39.0°	37.6°	36.8°	36.5°
Beat VMG	4.55	5.58	6.15	6.48	6.73	6.90	7.03
52°	7.06	8.48	8.99	9.25	9.44	9.68	9.97
60°	7.61	8.89	9.33	9.63	9.88	10.16	10.58
75°	8.16	9.22	9.89	10.38	10.73	10.98	11.65
90°	8.18	9.23	10.07	10.92	11.49	11.90	12.49
110°	7.82	9.15	9.73	10.41	11.20	12.26	14.13
120°	7.53	9.09	9.90	10.55	11.28	12.17	13.97
135°	6.69	8.52	9.47	10.54	11.73	12.60	14.51
150°	5.57	7.13	8.39	9.41	10.15	11.11	14.10
Run VMG	4.82	6.17	7.27	8.08	8.79	9.62	12.21
Gybe Angles	141.1°	140.0°	146.6°	152.0°	149.2°	144.0°	144.6°