



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

ORC
Central Rating Office
issuing certificates for
CANADA



Certificate

Number **004/16**
Issued On **9.5.2016**.
ORC Ref **CAN00062885**
VPP Ver. **2016 1.01**
Valid until **31.12.2016**.

Crew Weight

Declared **1,100lbs**
Default* **1,493lbs**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	638.9	0.9391
Non Spin OSN	622.3	0.9642
N/S Perf. Line	22.5	0.628

Sails Limitations

Headsails **6** Spinnakers **3**

Spinnaker configuration

Symmetric: **Yes 1000.94**
Asymmetric: **Yes 1013.89**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **9.428**

Stability

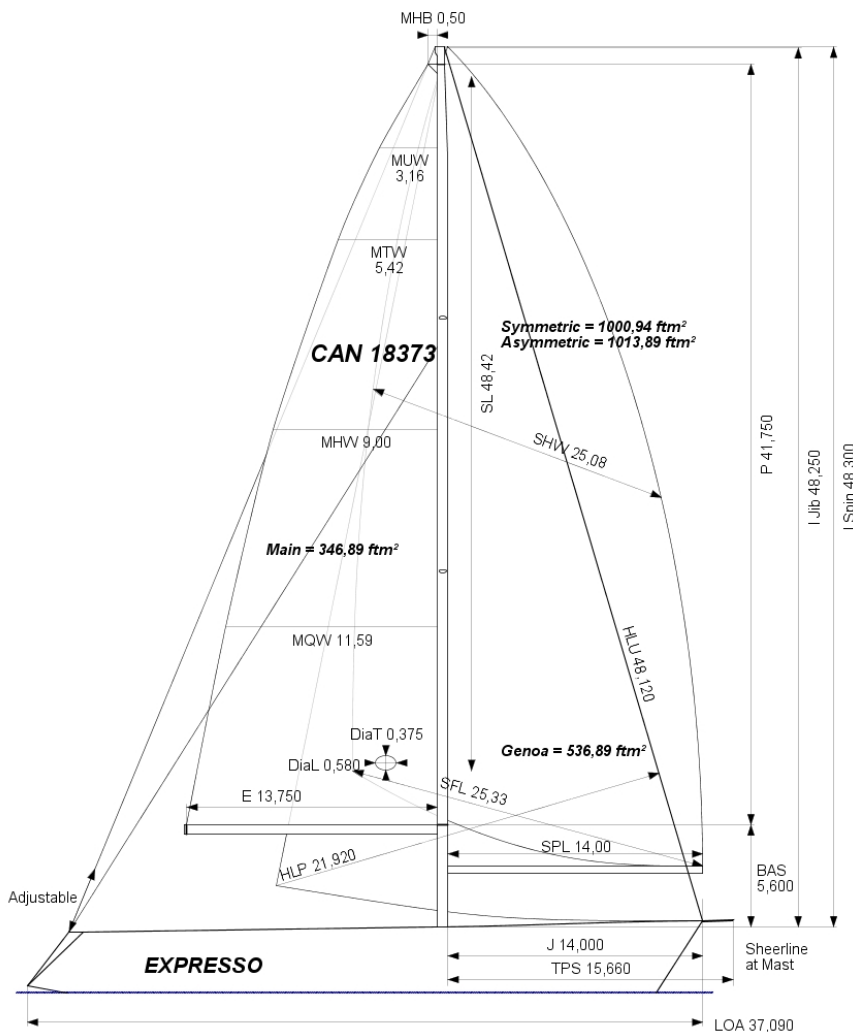
LPS (Estimated): **113.7°**
Stability Index: **114.2**
OSR Category: **N/A**

Owner

George Bishop
978 Beach Drive
V9S 2Y3 Nanaimo BC
CANADA

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

Signature



BOAT		GPH		HULL		
Name	Expresso			Data File	CAN18373.dxt	
Sail Nr	CAN 18373			Offset File	US18631.OFF	
		616.6		Displacement	11,717lbs	
				LOA	37.090ft	
				MB	11.580ft	
				Draft	7.377ft	
CLASS				IMS Division	Cruiser/Racer	
Class	Express 37			Dynamic All.	0.034%	
Designer	Carl Schumacher			Fwd Accom.	Yes	
Builder	Alsberg Bros Boatw			Construction	Cored	
Series	07.1984			Fiber Rigging	No	
Age Date	01.1985			Aramid Core	No	
Age Allowance	0.487%			Carbon Rudder	No	
COMMENTS				Light Stanchions	No	
				IMSL	32.376ft	
				VCGD	0.303ft	
				Sink	1071.46lbs/in	
				RL	8.987ft	
				VCGM	0.199ft	
				WS	282.31ft2	
				LSM0	32.437ft	
				Displacement/Length ratio	0.3433	
				Water Ballast	0	
				Trim Tab	No	
PROPELLER				CENTERBOARD		
Installation	Shaft exposed	PRD	1.330			
Type	Folding 2 blades	PIPA	0.0052	N/A		
SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	600.1			668.7		
Time On Time	0.9998			1.0094		
Performance Line	PLT	PLD		PLT	PLD	
	0.688	44.8		0.864	209.7	
Triple Number	Low	Medium	High	Low	Medium	High
	0.9559	1.2353	1.3877	0.7354	1.0022	1.1648



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ORC Club Certificate Appendix

BOAT

Name **Expresso** Certificate Number **004/16**
 Sail Nr **CAN 18373** Issued On **9.5.2016.**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1017.1	842.9	747.1	704.4	682.3	669.6	658.8
52°	662.7	555.3	509.6	494.8	487.7	483.3	479.6
60°	623.8	530.1	495.2	481.6	474.5	470.3	466.1
75°	591.8	513.5	484.2	466.6	454.3	447.2	440.5
90°	595.2	515.6	485.6	466.1	448.2	433.0	417.3
110°	639.5	528.4	486.7	461.4	440.1	428.2	407.8
120°	661.4	543.7	494.0	467.8	442.3	418.3	389.8
135°	738.6	597.5	520.1	485.7	461.7	437.1	389.9
150°	876.4	692.2	583.7	518.0	486.4	463.9	418.9
Run VMG	1012.0	799.3	673.6	591.6	536.1	497.6	452.4

Selected Courses

Windward / Leeward	1014.6	821.1	710.3	648.0	609.2	583.6	555.6
Circular Random	848.7	685.5	598.2	547.7	516.5	495.8	469.8
Ocean for PCS	1045.5	806.6	672.3	590.6	537.8	501.3	451.4
Non Spinnaker	888.0	713.7	619.4	564.1	529.8	507.3	479.3

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	43.5°	42.5°	41.3°	39.1°	38.2°	37.4°	36.9°
Beat VMG	3.54	4.27	4.82	5.11	5.28	5.38	5.46
52°	5.43	6.48	7.07	7.28	7.38	7.45	7.51
60°	5.77	6.79	7.27	7.47	7.59	7.66	7.72
75°	6.08	7.01	7.43	7.72	7.92	8.05	8.17
90°	6.05	6.98	7.41	7.72	8.03	8.31	8.63
110°	5.63	6.81	7.40	7.80	8.18	8.41	8.83
120°	5.44	6.62	7.29	7.70	8.14	8.61	9.24
135°	4.87	6.03	6.92	7.41	7.80	8.24	9.23
150°	4.11	5.20	6.17	6.95	7.40	7.76	8.59
Run VMG	3.56	4.50	5.34	6.09	6.72	7.23	7.96
Gybe Angles	145.0°	149.5°	150.9°	156.1°	173.3°	180.0°	180.0°