

BOAT Name Ladies First Sail Nr CRO 1640	GPH 633.7	HULL Length Overall 9.982m Maximum Beam 3.372m Displacement 4,646kg Draft 2.002m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.076% Fwd Accommodation No Hull Construction Cored Carbon Rudder No Crew Arm Extension IMSL 9.123m VCGD -0.089m Sink 16.52kg/mm RL 8.396m VCGM -0.077m WS 22.23m² LSM0 8.974m Displacement/Length ratio 6.4287
GENERAL Class First 34.7 Designer Farr Builder Beneteau Series 10/2005 Age 08/2008 Age Allowance 0.455% Offset File F235.OFF - 24/08/2009 13:20:08 Measurement by - 11/03/2011		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	616.2			685.3		
Time on Time	0.9737			0.9850		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	722.3	562.3	505.0	930.0	687.2	602.3
Time on Time	0.9345	1.2005	1.3367	0.7258	0.9823	1.1207

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1058.4	881.1	775.8	728.8	712.4	706.2	707.9
52°	692.9	586.1	535.2	514.9	507.2	503.7	503.1
60°	654.5	560.8	521.9	503.7	494.0	489.7	487.4
75°	627.6	543.9	512.1	493.3	478.7	467.9	459.3
90°	635.9	544.7	506.6	490.8	473.9	457.2	433.2
110°	642.8	537.2	498.9	473.7	451.5	438.1	418.9
120°	661.8	547.7	504.0	477.5	451.6	428.1	398.8
135°	730.3	594.2	525.4	494.6	469.5	444.2	397.0
150°	857.6	684.6	580.8	523.6	495.2	471.9	426.0
Run VMG	990.2	790.5	669.5	592.9	538.3	505.0	459.4

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Number **034/19**
ORC Ref **CRO00090358**
Issued On **24/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight

Default **590kg**
Maximum **660kg**
Minimum* **495kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	665.5	0.9016
Non Spin OSN	645.8	0.9291

Selected Courses							
Windward / Leeward	1024.3	835.8	722.7	660.9	625.4	605.6	583.6
Circular Random	868.1	702.9	615.0	564.5	533.9	514.2	489.7
Coastal / Long Distance	1020.9	785.5	654.3	582.4	544.4	514.7	467.5
Non Spinnaker	925.5	743.3	644.9	587.6	552.6	530.1	502.4

Sails Limitations

Headsails	Spinnakers
5	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	42.6°	41.3°	40.6°	39.0°	38.7°	38.6°	39.0°
Beat VMG	3.40	4.09	4.64	4.94	5.05	5.10	5.09
52°	5.20	6.14	6.73	6.99	7.10	7.15	7.16
60°	5.50	6.42	6.90	7.15	7.29	7.35	7.39
75°	5.74	6.62	7.03	7.30	7.52	7.69	7.84
90°	5.66	6.61	7.11	7.34	7.60	7.87	8.31
110°	5.60	6.70	7.22	7.60	7.97	8.22	8.59
120°	5.44	6.57	7.14	7.54	7.97	8.41	9.03
135°	4.93	6.06	6.85	7.28	7.67	8.10	9.07
150°	4.20	5.26	6.20	6.88	7.27	7.63	8.45
Run VMG	3.64	4.55	5.38	6.07	6.69	7.13	7.84
Gybe Angles	145.3°	149.6°	151.5°	158.6°	180.0°	180.0°	180.0°

Class Division Length

CDL = **8.760**

Storm Sails Areas

Heavy Weather Jib **23.85**
Storm Jib (JL=8.64) **8.84**
Storm Trysail **9.81**

Owner

BOAT			
Name	Ladies First	Sail Nr	CRO 1640
File	CRO1640	Data in	meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date		23/05/2019	SG 1.0250
FFM	1.300	FF	1.299
FAM	1.035	FA	1.037
SFFP	0.172	SAFP	9.530
W1	70.0	PD1	506.6
W2	70.0	PD2	508.0
W3	70.0	PD3	504.2
W4	70.0	PD4	503.8
WD	9.360	GSA	1.0
RSA	1.0	PLM	9000.0
LCF from stem on CL / on sheer		5.400 / 5.633	
Maximum beam station from stem		6.642	
RM Measured		102.0kg-m	
RM Default		100.5kg-m	
Limit of positive stability / Stab.Index		126.7° / 126.4	
Freeboard at mast at 3.680		1.161	



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RIG			
Forestay Tension	Aft	Spreaders	2
Inner Stay	None Fitted	Runners	0
Carbon Mast	Yes	Jumper Struts	None
Taper Hollows	No	Jib Furler	No
Fiber Rigging	No	Main Furler	No
Lenticular Rigging	No	Without Backstay	No
Articulated Bowsprit	No		
P	12.530	E	4.470
IG	13.145	J	3.680
ISP	14.320	SFJ	
BAS	1.525	SPL	3.800
FSP	0.062	TPS	
MDT1	0.114	MW	0.165
MDL1	0.165	GO	0.205
MDT2	0.094	BD	0.130
MDL2	0.131	MWT	118.00
TL	1.230	MCG	4.770

MIZZEN RIG AND SAILS			
N/A			

PROPELLER			
Installation	Strut	PRD	0.410
Type	Folding 2 blades	PBW	
Twin Screw	No	PIPA	0.0030
ST1	0.042	ST3	0.180
ST2	0.180	ST4	0.112
		ST5	0.180
		EDL	1.780

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COMMENTS			

MOVABLE BALLAST			
N/A			

CENTERBOARD			
N/A			



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.320	1.00	1.73	2.88	3.73	33.59	34.31	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	82.03		SL · (SFL + 4·SHW) / 6	
	13.86	13.86	13.86	7.17	6.83				
Asymmetric									
Not Available									

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.09	0.63	1.23	2.46	3.76	5.09	12.91	32.41			23/05/2019	Kevlar	
0.10	0.57	1.11	2.32	3.58	4.87	12.86	30.56			08/04/2014	Carbon	MH
0.10	0.53	0.98	1.83	2.70	3.59	13.00	23.84	Y		30/10/2015	Carbon	Jib 3

MEASUREMENT INVENTORY				
Measurer	CRO5			
Date	23/05/2019			
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	Yanmar	3YM20	
Id	Item	Weight Description		

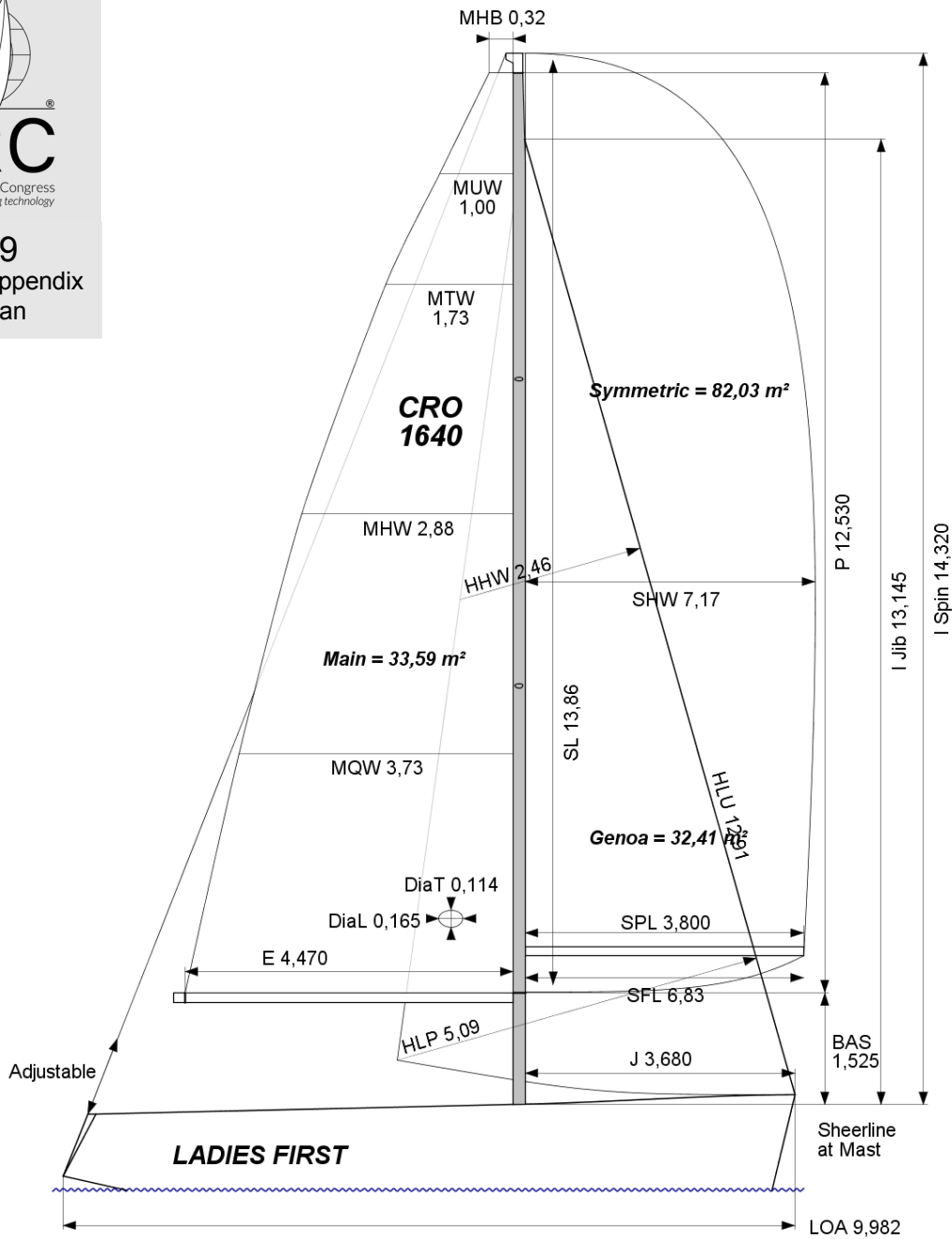
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
1	Tank	Water	PVC	100.0	4.20	0-0	starboard
2	Tank	Holding	PVC	90.0	2.60	0-0	starboard
3	Tank	Disel	PVC	60.0	7.20	15-0	
4	Tank	Boiler	Inox	25.0	7.05	0-0	port
Id	Item	Weight	Distance	VCG Description			
1	Battery	0.0	3.23	75 Ah port			
2	Battery	0.0	3.70	75 Ah port			
3	Battery	0.0	3.90	75 Ah port			



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SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.32	1.00	1.73	2.88	3.73	33.59		09/04/2014	North sails	Carbon						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
3	0.09	0.63	1.23	2.46	3.76	5.09	12.91	138%	32.41				23/05/2019	North sails	Kevlar	
1	0.10	0.57	1.11	2.32	3.58	4.87	12.86	132%	30.56				08/04/2014	North sails	Carbon	MH
2	0.10	0.53	0.98	1.83	2.70	3.59	13.00	98%	23.84	Y			30/10/2015	North sails	Carbon	Jib 3
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	13.86	13.86	13.86	7.17	6.83	82.03		23/05/2019	North sails	Nylon	S2+					
2	13.56	13.56	13.56	6.60	6.57	74.52		08/04/2011	North sails	Nylon	S3					
1	14.12	14.12	14.12	5.67	6.87	69.55		13/04/2011	North sails	Nylon	S0					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				