

BOAT Name SOLOLEI Sail Nr ITA-15574	GPH 651.6	HULL Length Overall 10.300m Maximum Beam 3.484m Displacement 5,398kg Draft 1.958m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.265% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class DUFOUR 34 Designer FELCI Builder DUFOUR Series 07/2003 Age 10/2006 Age Allowance 0.487% Offset File DUFOUR34.OFF - 13/01/2016 22:09:36 Measurement by - 15/05/2019		IMSLS 9.490m VCGD -0.057m Sink 18.51kg/mm RL 7.895m VCGM 0.103m WS 24.07m² LSM0 9.382m Displacement/Length ratio 6.5365



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	633.4			710.9		
Time on Time	0.9473			0.9495		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	747.7	576.5	517.4	968.0	716.3	625.1
Time on Time	0.9028	1.1709	1.3046	0.6973	0.9423	1.0799

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1119.4	928.8	817.9	751.5	726.5	717.3	721.7
52°	726.8	615.1	551.2	522.2	509.9	505.5	503.8
60°	685.1	583.8	532.5	509.2	497.1	491.6	488.7
75°	656.1	560.6	519.1	498.6	484.3	473.5	463.3
90°	656.1	549.4	505.7	487.0	478.7	466.0	441.8
110°	650.4	541.4	499.9	476.3	455.1	438.3	421.2
120°	671.4	554.7	505.9	480.7	457.7	435.2	400.7
135°	745.7	607.4	530.7	497.3	474.5	451.7	409.0
150°	878.7	700.7	597.2	538.4	508.8	490.2	455.4
Run VMG	1014.6	809.1	689.6	621.7	583.9	534.3	486.7

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Number **155741**
ORC Ref **ITA00052987**
Issued On **01/06/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **628kg**
Maximum **585kg**
Minimum* **439kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	658.9	0.9106
Double H.OSN	641.8	0.9349
Non Spin GPH	687.1	0.8732
Non Spin OSN	664.8	0.9025

Selected Courses							
Windward / Leeward	1067.0	868.9	753.8	686.6	655.2	625.8	604.2
Circular Random	897.1	724.3	631.9	578.9	546.9	526.7	503.5
Coastal / Long Distance	1061.8	814.6	677.4	596.7	557.9	525.7	477.1
Non Spinnaker	965.7	771.5	665.4	602.8	564.5	540.4	513.5

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	43.2°	41.5°	41.3°	40.1°	39.3°	39.0°	39.6°
Beat VMG	3.22	3.88	4.40	4.79	4.95	5.02	4.99
52°	4.95	5.85	6.53	6.89	7.06	7.12	7.15
60°	5.25	6.17	6.76	7.07	7.24	7.32	7.37
75°	5.49	6.42	6.93	7.22	7.43	7.60	7.77
90°	5.49	6.55	7.12	7.39	7.52	7.73	8.15
110°	5.53	6.65	7.20	7.56	7.91	8.21	8.55
120°	5.36	6.49	7.12	7.49	7.87	8.27	8.98
135°	4.83	5.93	6.78	7.24	7.59	7.97	8.80
150°	4.10	5.14	6.03	6.69	7.08	7.34	7.90
Run VMG	3.55	4.45	5.22	5.79	6.17	6.74	7.40
Gybe Angles	145.1°	147.9°	147.4°	149.0°	173.9°	176.2°	178.3°

Class Division Length
CDL = **8.693**

Storm Sails Areas
Heavy Weather Jib **23.43**
Storm Jib (JL=8.57) **8.68**
Storm Trysail **9.62**

Owner

BOAT		
Name SOLOLEI	Sail Nr ITA-15574	
File I15574	Data in meters/kilograms	

RIG		
Forestay Tension Aft	Spreaders 2	
Inner Stay None Fitted	Runners 0	
Carbon Mast No	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 12.100	E 4.543	MDT1 0.120 MW 0.178
IG 13.173	J 3.760	MDL1 0.179 GO 0.178
ISP 14.097	SFJ 0.143	MDT2 0.119 BD 0.131
BAS 1.668	SPL 0.000	MDL2 0.144 MWT 119.75
FSP 0.070	TPS 4.685	TL 0.665 MCG 5.187

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 24/03/2019	SG 1.0090	
FFM 1.286	FF 1.291	SFFP 0.390
FAM 1.032	FA 1.037	SAFP 9.636
W1 77.3	PD1 574.3	WD 10.880
W2 77.3	PD2 574.0	GSA 1.0
W3 77.3	PD3 575.4	RSA 1.0
W4 77.3	PD4 578.0	PLM 9000.0
LCF from stem on CL / on sheer	5.746 / 5.987	
Maximum beam station from stem	6.408	
RM Measured	115.1kg-m	
RM Default	118.4kg-m	
Limit of positive stability / Stab.Index	113.0° / 114.1	
Freeboard at mast at 3.903	1.133	



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MIZZEN RIG AND SAILS		
N/A		

PROPELLER		
Installation Strut	PRD 0.437	
Type Folding 2 blades	PBW 0.113	
Twin Screw No	PIPA 0.0037	
ST1 0.065	ST3 0.180	ST5 0.293
ST2 0.180	ST4 0.110	EDL 2.191

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COMMENTS		

MOVABLE BALLAST		
N/A		

CENTERBOARD		
N/A		



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.150	0.89	1.65	2.89	3.80	32.31	33.00	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	AS · (SFL + 4·SHW) / 6		
	15.41	12.91	14.16	7.28	6.88	84.96			

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
0.08	0.62	1.19	2.40	3.66	4.94	12.81	31.28			15/05/2019	Dyneem	
0.10	0.61	1.17	2.37	3.63	4.88	12.47	30.12	N	N	15/06/2016	Unknow	Light
0.10	0.59	1.10	2.28	3.58	4.83	12.57	29.68	N	N	09/04/2015	Unknow	Medium

MEASUREMENT INVENTORY				
Measurer 174				
Date 24/03/2019				
Comment Y. C. HANNIBAL				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
A	Engine	VOLVO	D1-30	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

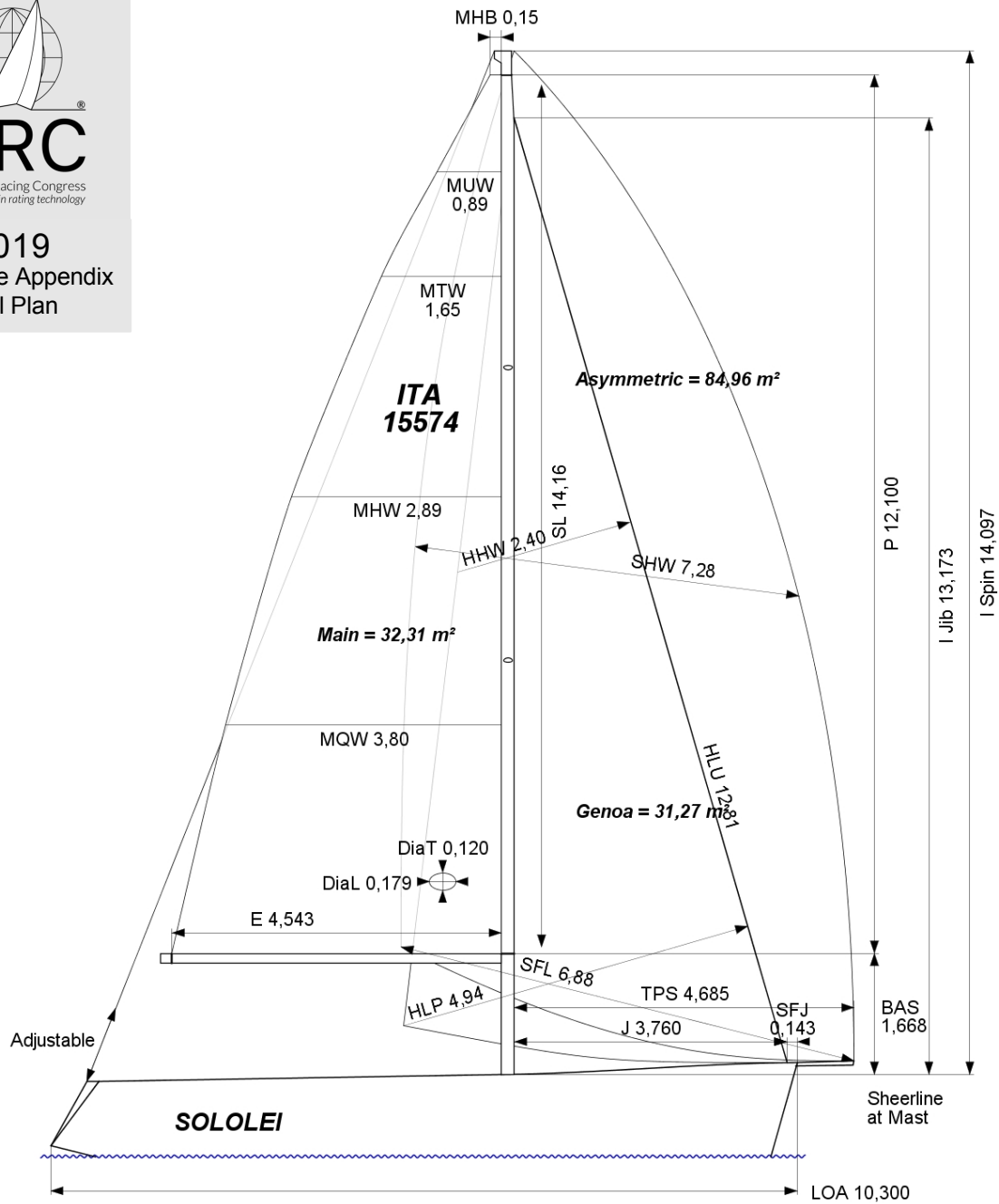
MEASUREMENT INVENTORY							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
A	Tank	WATER	PVC	150.0	3.65	-0.18	0-0 CX
B	Tank	WATER	PVC	150.0	8.05	-0.18	0-0 SX
D	Tank	BLACK	PVC	0.0	8.25	0.60	0-0 DX
C	Tank	FUEL	PVC	90.0	8.35	-0.19	5-0 L - DX
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
A	Battery	0.0	8.25	-0.18 3x75 Ah SX			
A	Misc	0.0	0.60	0.00 ANCHOR WINDLASSES			
B	Misc	0.0	5.15	0.00 BOILER			
C	Misc	0.0	6.40	0.00 FORNO+FUOCHI			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
A	0.15	0.89	1.65	2.89	3.80	32.32		13/04/2019	ONE SAIL	Unknown						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
D	0.08	0.62	1.19	2.40	3.66	4.94	12.81	131%	31.28				15/05/2019	ONE	Dyneem	
B	0.10	0.61	1.17	2.37	3.63	4.88	12.47	130%	30.12	N	N		15/06/2016	One Sail	Unknow	Light
C	0.10	0.59	1.10	2.28	3.58	4.83	12.57	128%	29.68	N	N		09/04/2015	One Sail	Unknow	Medium
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (4)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
C	15.41	12.91	14.16	7.28	6.88	84.96	asym		18/03/2019	ONE	Nylon	A2				
B	14.98	13.09	14.04	6.92	8.11	83.72	asym		08/04/2017	Zadro	Nylon					
D	15.04	12.72	13.88	6.76	6.71	78.08	asym		18/03/2019	ONE	Nylon	A1				
A	13.46	13.02	13.24	6.32	7.04	71.32	asym		08/04/2017	Zadro	Nylon					