

BOAT Name BLUE Sail Nr ITA-5252	GPH 447.2	HULL Length Overall 15.837m Maximum Beam 4.428m Displacement 7,383kg Draft 3.581m IMS Reg. Division Performance Dynamic Allowance 0.001% Fwd Accommodation No Hull Construction Carbon, Aramid Carbon Rudder Yes Crew Arm Extension
GENERAL Class TP52 Designer JUDEL/VROLIJK Builder HAWKES MARINE Series 03/2008 Age 03/2008 Age Allowance 0.357% Offset File I5252.off - 12/03/2019 08:45:52 Measurement by - 21/05/2019		IMSL 15.458m VCGD -1.008m Sink 32.55kg/mm RL 15.488m VCGM -0.977m WS 40.98m² LSM0 15.003m Displacement/Length ratio 2.1862



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	435.1			492.4		
Time on Time	1.3790			1.3707		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	511.9	398.3	341.5	666.1	499.9	422.0
Time on Time	1.3185	1.6945	1.9766	1.0134	1.3503	1.5996

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	741.8	606.1	558.3	536.6	520.6	507.1	500.6
52°	480.1	406.2	387.1	377.4	370.9	360.7	350.7
60°	448.7	391.3	372.6	360.6	352.4	343.5	329.5
75°	426.7	379.7	351.2	334.1	323.6	316.6	298.0
90°	430.6	381.8	347.4	319.1	302.4	291.7	277.7
110°	459.8	386.2	356.4	331.3	308.9	281.8	244.9
120°	475.1	390.9	349.4	324.5	304.4	281.2	245.9
135°	534.2	416.4	371.3	330.6	293.9	268.0	234.1
150°	643.3	496.6	420.4	374.2	343.3	305.2	241.7
Run VMG	742.8	573.5	485.5	436.3	396.4	352.4	279.0

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Selected Courses							
Windward / Leeward	742.3	589.8	521.9	486.4	458.5	429.8	389.8
Circular Random	618.2	498.8	434.4	395.6	369.3	349.4	319.4
Coastal / Long Distance	742.4	554.8	469.2	417.2	383.9	351.1	301.5
Non Spinnaker	677.8	542.8	468.7	423.5	393.2	371.2	339.8

Crew Weight

Default **1,228kg**
Maximum **1,140kg**
Minimum* **855kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	458.9	1.3076
Double H.OSN	449.2	1.3358
Non Spin GPH	483.2	1.2417
Non Spin OSN	473.9	1.2661

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	43.6°	41.7°	39.3°	38.3°	37.3°	36.3°	36.6°
Beat VMG	4.85	5.94	6.45	6.71	6.92	7.10	7.19
52°	7.50	8.86	9.30	9.54	9.71	9.98	10.27
60°	8.02	9.20	9.66	9.98	10.22	10.48	10.92
75°	8.44	9.48	10.25	10.77	11.12	11.37	12.08
90°	8.36	9.43	10.36	11.28	11.91	12.34	12.96
110°	7.83	9.32	10.10	10.87	11.65	12.78	14.70
120°	7.58	9.21	10.30	11.09	11.83	12.80	14.64
135°	6.74	8.65	9.70	10.89	12.25	13.43	15.38
150°	5.60	7.25	8.56	9.62	10.49	11.79	14.90
Run VMG	4.85	6.28	7.42	8.25	9.08	10.21	12.90
Gybe Angles	140.7°	140.2°	146.1°	151.6°	147.6°	143.4°	144.7°

Sails Limitations

Headsails	Spinnakers
7	5

Class Division Length

CDL = **15.474**

Storm Sails Areas

Heavy Weather Jib **52.34**
Storm Jib (JL=12.80) **19.39**
Storm Trysail **24.37**

Owner

BOAT	
Name BLUE	Sail Nr ITA-5252
File I5252	Data in meters/kilograms

RIG	
Forestay Tension Aft & Forward	Spreaders 3
Inner Stay None Fitted	Runners 0
Carbon Mast Yes	Jumper Struts None
Taper Hollows No	Jib Furler No
Fiber Rigging Yes	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 19.750	E 7.050 MDT1 0.135 MW 0.294
IG 19.610	J 6.150 MDL1 0.318 GO 0.319
ISP 22.370	SFJ 0.600 MDT2 0.102 BD 0.350
BAS 2.110	SPL 0.000 MDL2 0.172 MWT 280.00
FSP 0.056	TPS 9.000 TL 2.630 MCG 7.495

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 10/05/2019		SG 1.0250	
FFM 0.275	FF 0.275	SFFP 0.014	
FAM 0.773	FA 0.774	SAFP 15.837	
W1 155.4	PD1 516.5	WD 15.650	
W2 155.4	PD2 494.4	GSA 1.0	
W3 155.4	PD3 496.4	RSA 1.0	
W4 155.4	PD4 500.7	PLM 9000.0	
LCF from stem on CL / on sheer		8.679 / 8.933	
Maximum beam station from stem		11.000	
RM Measured		381.6kg-m	
RM Default		349.6kg-m	
Limit of positive stability / Stab.Index		140.1° / 139.1	
Freeboard at mast at 6.750		1.247	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.400		
Type Folding 2 blades	PBW 0.100		
Twin Screw No	PIPA 0.0038		
ST1 0.042	ST3 0.180	ST5 0.285	
ST2 0.180	ST4 0.112	EDL 0.700	

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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	
	1.970	2.58	3.49	4.88	6.01	92.90	95.52	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	Formula		
	25.10	21.40	23.25	13.65	13.95	265.63	AS · (SFL + 4·SHW) / 6		

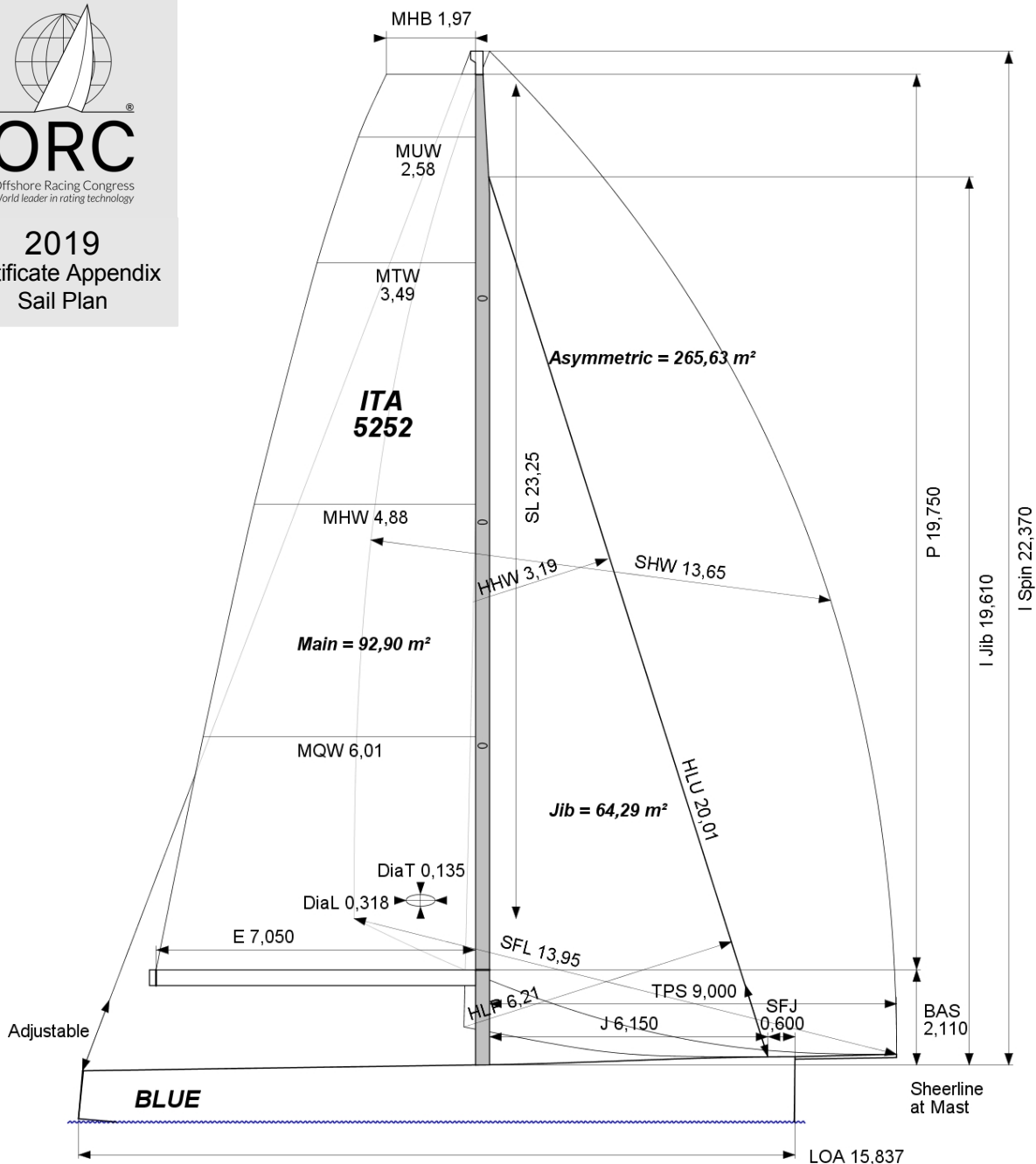
HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.14	0.98	1.76	3.19	4.76	6.21	20.01	64.30	Y	N	16/04/2019	Carbon	JLM8
0.15	0.98	1.75	3.18	4.67	6.21	20.00	63.79	Y	N	16/04/2019	Carbon	JLM7
0.16	0.98	1.76	3.20	4.69	6.16	19.93	63.63	Y	N	16/04/2019	Carbon	JL3
0.14	0.95	1.74	3.18	4.68	6.22	19.94	63.57	Y	N	16/04/2019	Carbon	JM4

MEASUREMENT INVENTORY				
Measurer 164				
Date 10/05/2019				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
A	Engine	YANMAR	50HP	
Id	Item	Weight Description		

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
A	Tank	GASOLIO	PVC	65.0	9.95	0.00	15.0	L
Id	Item	Weight	Distance	VCG Description				
A	Ballast	105.0	8.07	0.00	4 PANI PB SX			
B	Ballast	108.5	8.07	0.00	4 PANI PB DX			
A	Battery	0.0	8.00	0.00	N. 3 BATTERIE			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	1.97	2.58	3.49	4.88	6.01	92.90		21/05/2019	ZAOLI	Unknown	

HEADSAILS (4)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
H	0.14	0.98	1.76	3.19	4.76	6.21	20.01	101%	64.30	Y	N		16/04/2019	N/S	Carbon	JLM8
G	0.15	0.98	1.75	3.18	4.67	6.21	20.00	101%	63.79	Y	N		16/04/2019	N/S	Carbon	JLM7
F	0.16	0.98	1.76	3.20	4.69	6.16	19.93	100%	63.63	Y	N		16/04/2019	N/S	Carbon	JL3
E	0.14	0.95	1.74	3.18	4.68	6.22	19.94	101%	63.57	Y	N		16/04/2019	N/S	Carbon	JM4

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
B	25.10	21.40	23.25	13.65	13.95	265.64	asym		21/05/2019	ZAOLI	Unknown	A2