

BOAT Name DAS BOOT Sail Nr USA 61304	GPH 617.4	HULL Length Overall 10.300m Maximum Beam 3.536m Displacement 4,893kg Draft 1.918m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.108% Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class ITALIA 998 Designer POLLI Builder ITALIA YACHTS Series 09/2014 Age 08/2020 Age Allowance 0.195% Offset File IY998MP.off - 04/11/2015 14:00:04 Measurement by - 21/08/2020		IMSL 9.498m VCGD 0.084m Sink 18.17kg/mm RL 8.350m VCGM 0.063m WS 24.08m² LSM0 9.232m Displacement/Length ratio 6.2185



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	602.8			676.8		
Time on Time	0.9954			0.9973		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	702.2	548.5	490.9	915.4	678.7	594.7
Time on Time	0.9613	1.2307	1.3750	0.7374	0.9945	1.1351

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1064.9	880.2	777.3	730.7	714.8	709.2	700.8
52°	691.7	582.9	528.8	506.3	498.2	494.8	490.9
60°	650.9	555.0	512.9	493.5	483.7	479.5	476.7
75°	601.5	520.6	491.9	478.8	466.6	455.6	447.9
90°	577.2	506.7	478.2	457.1	443.3	433.5	419.6
110°	596.8	513.5	480.4	454.0	430.8	409.9	380.1
120°	629.7	524.9	485.3	457.3	430.1	406.3	375.4
135°	700.7	568.1	505.4	475.6	448.6	422.4	371.3
150°	826.7	659.9	560.8	508.2	479.9	455.3	408.1
Run VMG	954.6	762.0	647.6	576.6	524.9	491.3	443.8

Selected Courses							
Windward / Leeward	1009.7	821.1	712.4	653.7	619.8	600.2	572.3
Circular Random	844.8	684.6	599.4	550.3	520.1	500.1	473.2
Coastal / Long Distance	1004.2	769.2	641.9	570.3	531.6	501.4	452.2
Non Spinnaker	919.5	736.8	637.8	580.0	544.5	521.5	492.4

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°	42.0°	41.1°	39.8°	40.1°	40.1°	40.1°
Beat VMG	3.38	4.09	4.63	4.93	5.04	5.08	5.14
52°	5.20	6.18	6.81	7.11	7.23	7.28	7.33
60°	5.53	6.49	7.02	7.30	7.44	7.51	7.55
75°	5.99	6.92	7.32	7.52	7.72	7.90	8.04
90°	6.24	7.10	7.53	7.88	8.12	8.30	8.58
110°	6.03	7.01	7.49	7.93	8.36	8.78	9.47
120°	5.72	6.86	7.42	7.87	8.37	8.86	9.59
135°	5.14	6.34	7.12	7.57	8.03	8.52	9.70
150°	4.35	5.46	6.42	7.08	7.50	7.91	8.82
Run VMG	3.77	4.72	5.56	6.24	6.86	7.33	8.11
Gybe Angles	144.5°	148.0°	148.5°	158.0°	180.0°	180.0°	180.0°

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Number **US6711**
ORC Ref **0341000PIP**
Issued On **01/09/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 614kg
Maximum **614kg**
Minimum* **461kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 658.4	0.9113
Non Spin OSN 639.1	0.9388

Sails Limitations

Headsails	Spinnakers
5	4

Class Division Length

CDL = **8.916**

Storm Sails Areas

Heavy Weather Jib **25.69**
Storm Jib (JL=8.97) **9.52**
Storm Trysail **10.99**

Owner

BOAT			
Name	DAS BOOT	Sail Nr	USA 61304
File	US6711	Data in	meters/kilograms
RIG			
Forestay Tension	Aft	Spreaders	2
Inner Stay	None Fitted	Runners/Checkstays	0
Carbon Mast	No	Jib Furler	No
Fiber Rigging	No	Main Furler	No
Non-Circular Rigging	No		
Articulated Bowsprit	No		
P	13.080	E	4.798
IG	13.743	J	4.140
ISP	14.815	SFJ	0.090
BAS	1.515	SPL	4.465
FSD	0.038	TPS	5.430
MDT1	0.125	MW	0.185
MDL1	0.184	GO	0.200
MDT2	0.125	BD	0.220
MDL2	0.156	MWT	
TL	0.770	MCG	

INCLINING TEST AND FREEBOARDS			
Inclining Test	Boom Inclining	LCFD	5.894
Flotation date	21/08/2020	SG	1.0070
FFM	1.248	FF	1.254
FAM	0.592	FA	0.600
SFFP	0.000	SAFP	10.300
W1	87.2	PD1	280.6
W2	87.2	PD2	281.1
W3	87.2	PD3	278.6
W4	87.2	PD4	280.0
WD	4.535	GSA	1.0
RSA	1.0	PLM	9000.0
LCF from stem on CL / on sheer	5.649 / 5.880		
Maximum beam station from stem	7.304		
RM Measured	111.2kg-m		
RM Default	118.6kg-m		
Limit of positive stability / Stab.Index	118.2° / 116.3		
Freeboard at mast at 4.230	1.206		



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MIZZEN RIG AND SAILS			
N/A			

PROPELLER			
Installation	Strut	PRD	0.408
Type	Folding 2 blades	PBW	0.114
Twin Screw	No	PIPA	0.0038
ST1	0.066	ST3	0.177
ST2	0.177	ST4	0.107
ST5	0.325	EDL	1.285

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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	
	0.36	1.07	1.80	2.95	3.91	36.74	37.45	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	92.22		SL · (SFL + 4·SHW) / 6	
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	102.35		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	Flying	Meas.Date	Material	Comment
0.11	0.80	1.45	2.50	3.44	4.34	13.65	32.53	Y	No	03/08/2020	Unknow	

MEASUREMENT INVENTORY				
Measurer				
Date	21/08/2020			
Comment				
Internal Ballast total = 0.0				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
1	Engine	Volvo		D130 30 hp
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

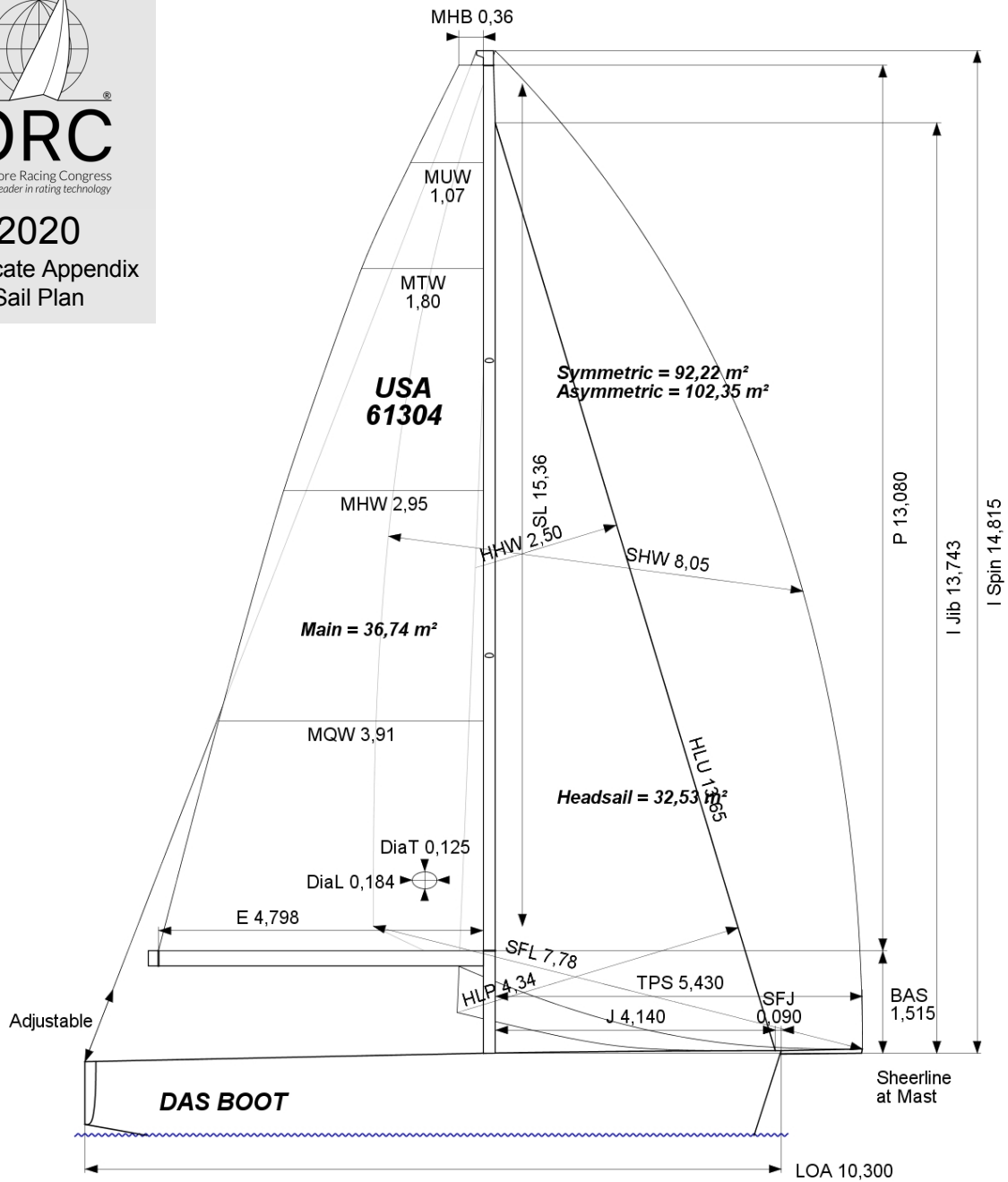
MEASUREMENT INVENTORY									
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>	
4	Tank	Fuel	PVC	60.0	7.53	0.00	30.0	Port close to CL	
3	Tank	Hot water	Alloy	20.0	7.43	0.00	0.0	Stbd close to CL	
2	Tank	Waste	PVC	60.0	7.23	0.50	0.0	Stbd side bulkhead	
1	Tank	Water	PVC	110.0	4.13	0.00	14.0	Port side settee	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>					
2	Battery	21.0	4.63	0.00 AGM 70 Ah 12V engine, stbd settee					
1	Battery	42.0	4.53	0.00 2 x AGM 70 Ah 12V house, stbd settee					
3	Misc	10.0	7.43	0.00 Water heater on CL					
2	Misc	8.0	5.73	0.00 Refrigerator compressor, under stove					
1	Misc	10.0	5.73	0.50 Gas stove/oven port side					



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2020 M1	0.36	1.07	1.80	2.95	3.91	36.74		03/08/2020	North	Unknown	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
J1	0.11	0.80	1.45	2.50	3.44	4.34	13.65	105%	32.53	Y	No		03/08/2020	North	Unknown	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S2	14.65	14.65	14.65	7.60	7.37	92.23		03/08/2020	North	Nylon	

ASYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
2020 A1.5	16.19	14.53	15.36	8.05	7.78	102.35	asym		03/08/2020	North	Unknown	
2020 A0	15.32	14.19	14.76	5.32	7.05	69.67	asy76		03/08/2020	North	Unknown	