

BOAT Name J 24 ONE DESIGN Sail Nr	GPH 718.9	HULL Length Overall 7.318m Maximum Beam 2.692m Displacement 1.271kg Draft 1.224m IMS Reg. Division Sportboat Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class J-24 Designer JOHNSTONE Builder J-BOATS Series 01/1977 Age Age Allowance 0.487% Offset File J24.0d - 11/04/2019 22:00:52 Measurement by CAMARGO - 16/04/2015		IMSL 6.486m VCGD 0.048m Sink 8.52kg/mm RL 6.450m VCGM 0.075m WS 10.46m² LSMO 6.227m Displacement/Length ratio 5.2639



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	698.1			778.4		
Time on Time	0.8595			0.8672		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	817.6	639.7	567.8	1052.9	780.5	690.6
Time on Time	0.8256	1.0551	1.1887	0.6411	0.8648	0.9774

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1182.7	989.5	885.3	831.4	816.4	813.5	834.5
52°	777.5	662.4	614.6	592.0	582.3	578.2	580.2
60°	731.6	634.5	599.2	576.7	561.6	554.7	552.5
75°	700.1	620.5	586.7	559.4	535.2	520.0	509.9
90°	706.2	620.4	578.3	545.0	525.5	502.3	471.0
110°	726.5	617.6	572.5	532.3	496.7	465.9	423.0
120°	749.4	629.2	581.0	541.6	505.1	468.5	388.8
135°	833.0	685.0	606.6	568.2	531.2	497.0	421.7
150°	985.7	781.1	663.8	601.1	566.3	532.0	468.5
Run VMG	1138.2	901.3	760.9	664.4	608.4	574.1	511.2

Certificate Number J24 ORC Ref N/A Issued On 11/04/2019 VPP Ver. 2019 1.01 Invalid for Racing
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Crew Weight Default 350kg Maximum 400kg Minimum* 300kg <i>*when applied by the NoR and SI</i> Non Manual Pwr No

Special Scoring
ToD ToT
Double H.GPH 731.3 0.8204
Double H.OSN 714.0 0.8403
Non Spin GPH 741.7 0.8090
Non Spin OSN 718.8 0.8347

Selected Courses							
Windward / Leeward	1160.5	945.4	823.1	747.9	712.4	693.8	672.8
Circular Random	983.4	797.8	698.3	640.1	603.6	579.1	546.9
Coastal / Long Distance	1158.2	889.6	746.9	661.5	617.5	579.9	510.9
Non Spinnaker	1021.6	825.2	719.7	658.2	620.1	595.2	564.8

Sails Limitations	
Headsails 5	Spinnakers 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	43.0°	42.0°	40.4°	39.0°	38.5°	38.5°	40.3°
Beat VMG	3.04	3.64	4.07	4.33	4.41	4.43	4.31
52°	4.63	5.43	5.86	6.08	6.18	6.23	6.20
60°	4.92	5.67	6.01	6.24	6.41	6.49	6.52
75°	5.14	5.80	6.14	6.43	6.73	6.92	7.06
90°	5.10	5.80	6.22	6.61	6.85	7.17	7.64
110°	4.96	5.83	6.29	6.76	7.25	7.73	8.51
120°	4.80	5.72	6.20	6.65	7.13	7.68	9.26
135°	4.32	5.26	5.93	6.34	6.78	7.24	8.54
150°	3.65	4.61	5.42	5.99	6.36	6.77	7.68
Run VMG	3.16	3.99	4.73	5.42	5.92	6.27	7.04
Gybe Angles	148.2°	152.0°	153.9°	172.9°	180.0°	180.0°	180.0°

Class Division Length CDL = 6.469
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Storm Sails Areas
Heavy Weather Jib 9.08
Storm Jib (JL=5.33) 3.37
Storm Trysail 4.44

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

BOAT	
Name J 24 ONE DESIGN	Sail Nr
File j24	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date 16/04/2015				SG 1.0250	
FFM	0.808	FF	0.808	SFFP	0.286
FAM	0.699	FA	0.699	SAFP	7.317
W1	20.0	PD1	332.0	WD	5.680
W2	20.0	PD2	330.0	GSA	1.0
W3	20.0	PD3	331.0	RSA	1.0
W4	20.0	PD4	332.0	PLM	9000.0
LCF from stem on CL / on sheer				4.086 / 4.291	
Maximum beam station from stem				4.355	
RM Measured				27.0kg·m	
RM Default				27.5kg·m	
Limit of positive stability / Stab.Index				103.3° / 95.3	
Freeboard at mast at 2.900				0.736	



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RIG					
Forestay Tension	Aft	Spreaders	1	Runners	0
Inner Stay	None Fitted	Jumper Struts	None	Jib Furler	No
Carbon Mast	No	Main Furler	No	Without Backstay	No
Taper Hollows	No				
Fiber Rigging	No				
Lenticular Rigging	No				
Articulated Bowsprit	No				
P	8.538	E	2.970	MDT1	0.087
IG	8.125	J	2.900	MDL1	0.124
ISP	8.210	SFJ		MDT2	0.087
BAS	1.080	SPL	2.895	MDL2	0.124
FSP		TPS		TL	0.000
				MW	0.124
				GO	0.150
				BD	0.085
				MWT	
				MCG	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

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VPP Ver. 2019 1.01
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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	0.70	1.18	1.98	2.60	15.66	16.03	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	8.13	8.13	8.13	5.22	5.20	35.34		SL · (SFL + 4·SHW) / 6	
Asymmetric									
Not Available									

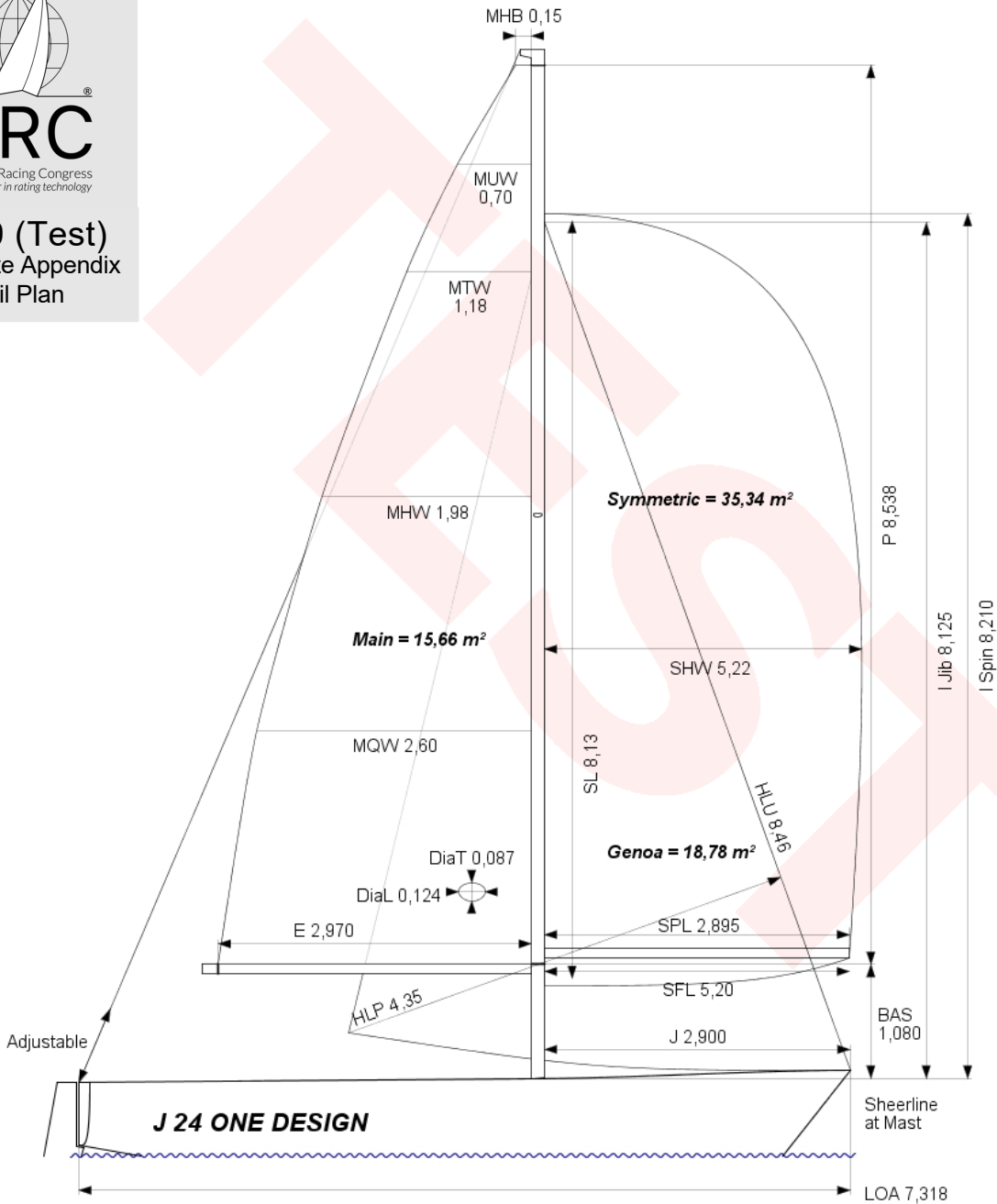
HEADSAILS											
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)											
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material
0.10					4.35	8.46	18.79				Class rules



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**2019 (Test)
Certificate Appendix
Sail Plan**



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	0.15	0.70	1.18	1.98	2.60	15.67					Class rules					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.10					4.35	8.46	150%	18.79							Class rules
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	8.13	8.13	8.13	5.22	5.20	35.34					Class rules					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				