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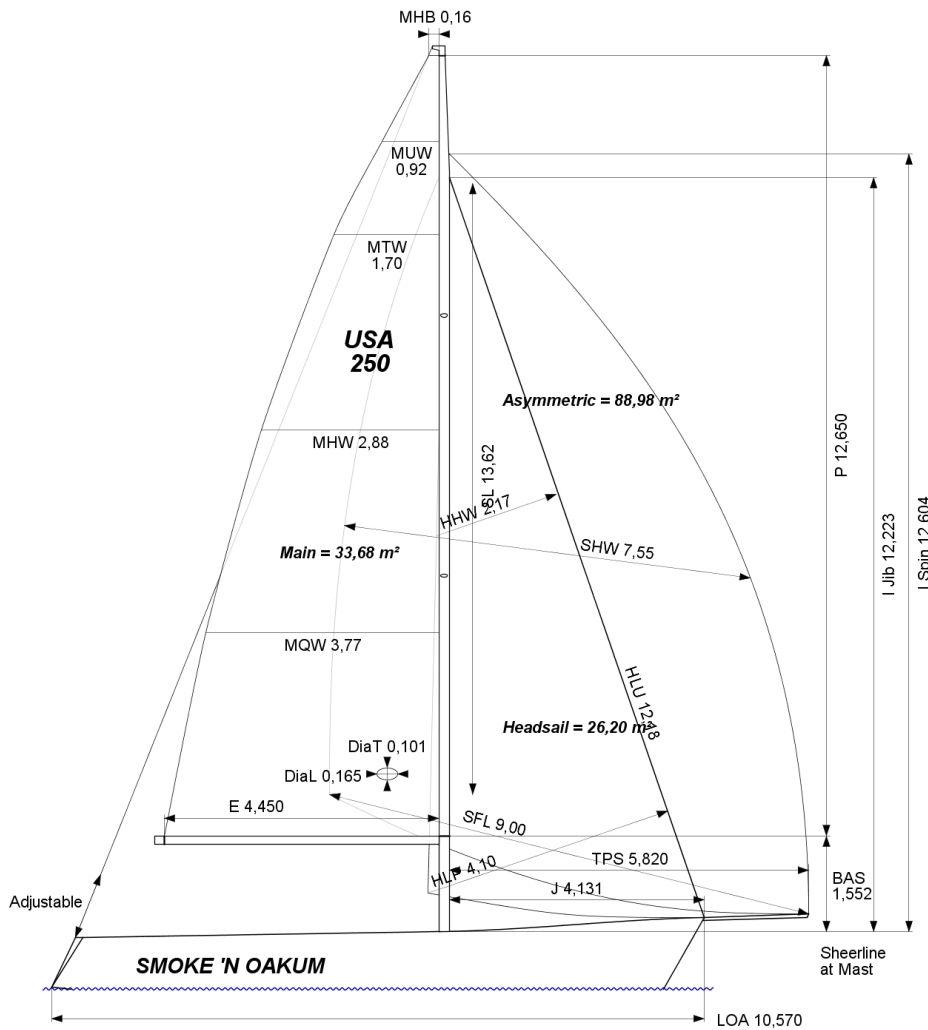
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Racing
Congress



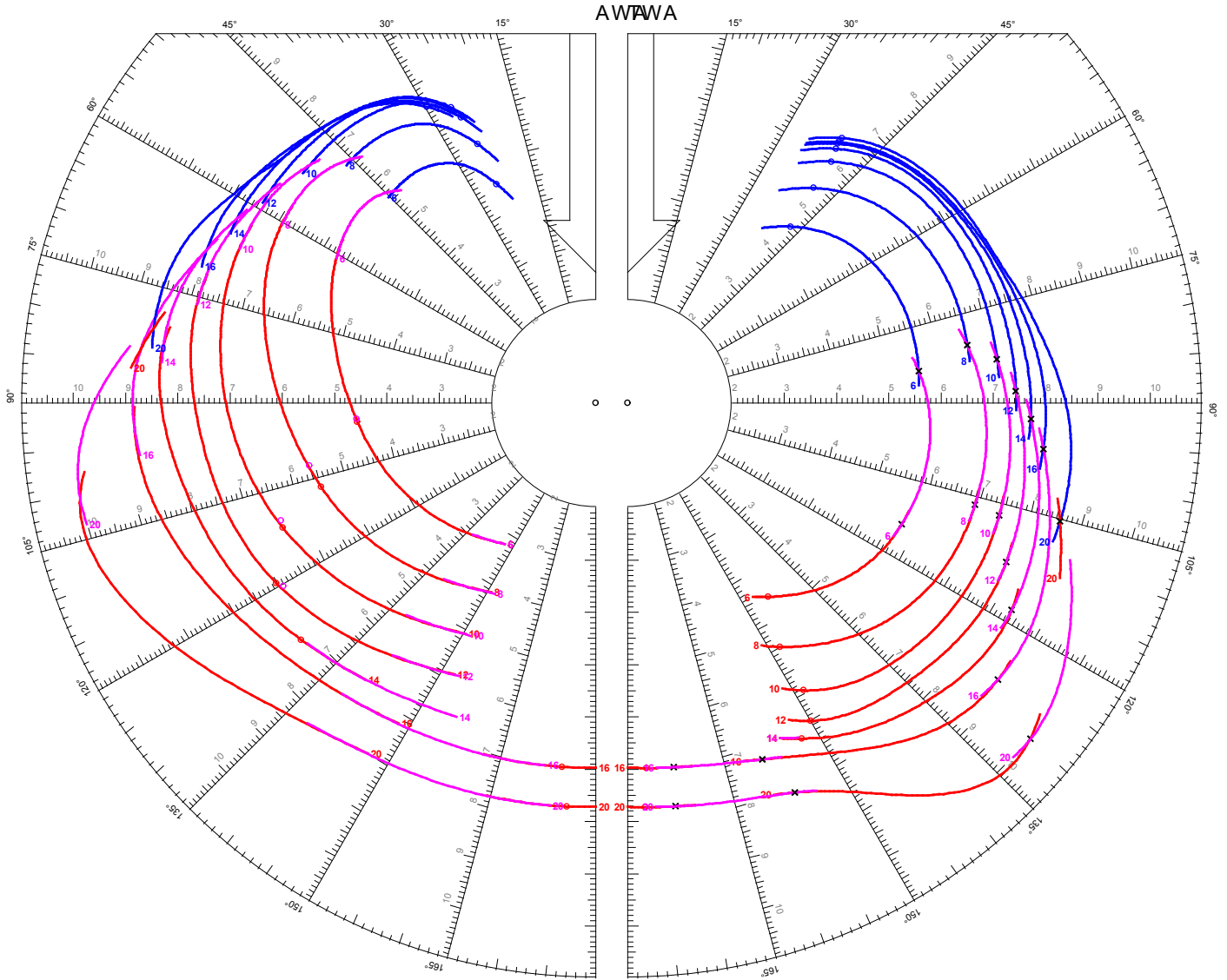
Certificate

Number **US6712**
Issued On **10/09/2020**
ORC Ref **03410000Q5S**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**



BOAT Name SMOKE 'N OAKUM Sail Nr USA 250		GPH 632.1	HULL Data File US6712dh LOA 10.570m Offset File H204+.OFF MB 3.346m Displacement 3,978kg Draft 2.006m		Crew Weight Default 170kg Maximum 170kg Non Manual Pwr No
CLASS Class J105 Designer JOHNSTONE Builder TILLOTSON-PEARSON Series 07/1994 Age Date 01/1998 Age Allowance 0.487%			Performance IMS Division Performance Dynamic All. 0.000% Fiber Rigging No Construction Cored Crew Arm Ex 0.00 Aramid Core No Carbon Rudder No Light Stanchions No		Sails Limitations Headsails 5 Spinnakers 4 Asymmetric on centerline Spinnaker configuration Symmetric: No Asymmetric: Yes 88.98 Flying H/S: No Spin. Pole: No
COMMENTS			LSMO 9.674m Displacement/Length ratio 4.3939 Water Ballast 0 Trim Tab No BLR Index 0.0000		Stability (Estimated) Limit Positive Stab.: 113.9° Stability Index: 111.8
PROPELLER Installation Shaft exposed PRD 0.381 Type Folding 2 blades PBW 0.098 PIPA 0.0031		CENTERBOARD N/A		Owner	

SCORING OPTIONS		
	Time on Distance	Time on Time
Coastal or Long Distance	614.6	0.9762
Circular Random	632.1	0.9492
Predominantly Upwind	614.5	0.9765
Predominantly Downwind	567.7	1.0568



Polar Plot for Boat	
Name	SMOKE 'N OAKUM
Sail Number	USA 250
Class	J105
Designer	JOHNSTONE
Builder	TILLOTSON-PEARSON
Issued On	10/09/2020 - VPP 2020 1.02

2020

Double Handed Certificate Appendix

BOAT			
Name	SMOKE 'N OAKUM	Certificate Number	US6712
Sail Nr	USA 250	Issued On	10/09/2020

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	1070.6	878.8	782.6	743.2	728.7	724.0	713.0	
52°	705.4	591.0	536.4	517.6	511.1	508.2	501.5	
60°	670.0	565.5	520.5	503.6	496.5	492.8	487.3	
75°	644.2	548.3	508.9	490.3	477.5	469.4	463.0	
90°	633.3	532.1	501.5	486.2	468.5	452.5	431.2	
110°	626.2	523.3	486.4	461.7	444.4	430.3	407.7	
120°	643.3	532.9	490.1	460.6	432.3	412.2	383.0	
135°	715.1	578.9	510.9	478.8	448.3	417.7	359.3	
150°	846.3	672.1	570.1	515.6	491.4	468.2	414.9	
Run VMG	977.2	776.1	658.3	595.4	564.2	518.4	468.2	
Selected Courses								
Windward / Leeward	1023.9	827.4	720.5	669.3	646.4	621.2	590.6	
Circular Random	865.7	700.3	613.1	563.9	534.2	514.4	486.6	
Coastal / Long Distance	1019.2	777.1	650.7	582.9	547.5	515.8	463.4	
Non Spinnaker	944.4	754.4	651.5	591.4	554.3	530.0	499.2	

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	42.8°	40.9°	40.1°	39.4°	39.0°	39.0°	39.0°	
Beat VMG	3.36	4.10	4.60	4.84	4.94	4.97	5.05	
52°	5.10	6.09	6.71	6.95	7.04	7.08	7.18	
60°	5.37	6.37	6.92	7.15	7.25	7.30	7.39	
75°	5.59	6.57	7.07	7.34	7.54	7.67	7.78	
90°	5.68	6.77	7.18	7.40	7.68	7.96	8.35	
110°	5.75	6.88	7.40	7.80	8.10	8.37	8.83	
120°	5.60	6.76	7.35	7.82	8.33	8.73	9.40	
135°	5.03	6.22	7.05	7.52	8.03	8.62	10.02	
150°	4.25	5.36	6.31	6.98	7.33	7.69	8.68	
Run VMG	3.68	4.64	5.47	6.05	6.38	6.94	7.69	
Gybe Angles	144.0°	148.0°	148.5°	150.0°	152.5°	177.0°	177.5°	