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2020
Club
Double Handed

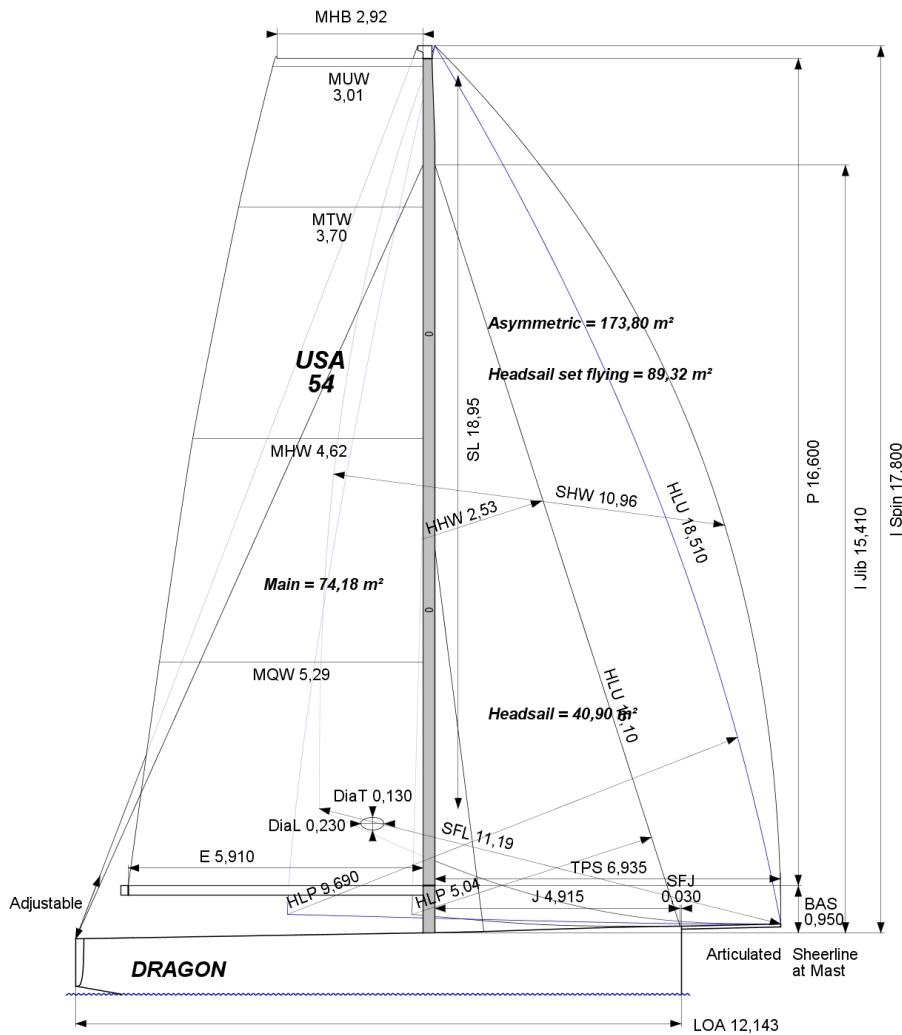
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Racing
Congress

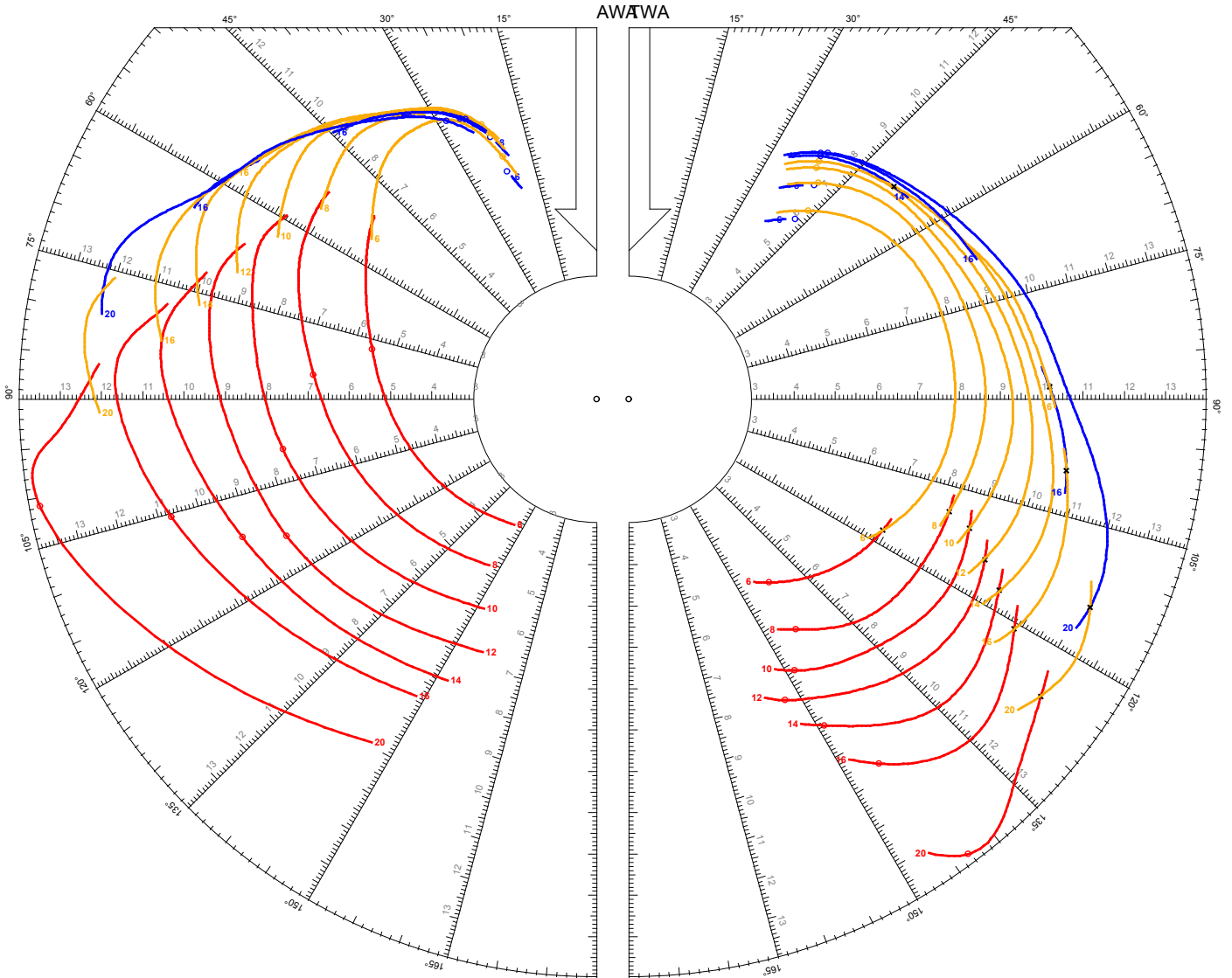


Certificate

Number **US6488**
Issued On **11/01/2021**
ORC Ref **03410000TM4**
VPP Ver. **2020 1.02**
Valid until **31/01/2021**



BOAT Name DRAGON Sail Nr USA 54		GPH 503.0	HULL Data File US6488 LOA 12.143m Offset File US41874.OFF MB 4.150m Displacement 4,709kg Draft 2.998m		Crew Weight Default 170kg Maximum 170kg Non Manual Pwr No	
CLASS Class Class 40 Designer OWEN CLARKE Builder COMPOSITE CREATION Series 01/2007 Age Date 01/2008 Age Allowance 0.422%			Performance Dynamic All. 0.000% Construction Cored Aramid Core No Carbon Rudder Yes Light Stanchions No		Sails Limitations Headsails 7 Spinnakers 5 Asymmetric on centerline Spinnaker configuration Symmetric: No Asymmetric: Yes 173.80 Flying H/S: Yes 89.32 Spin. Pole: No	
COMMENTS			IMSLS IMSL 11.917m VCGD -0.640m Sink 23.39kg/mm RL 12.261m VCGM -0.645m WS 29.32m² LSM0 11.545m Displacement/Length ratio 3.0602		Water Ballast 676 Trim Tab No BLR Index 1.1298	
PROPELLER Installation Shaft non exposed PRD 0.430 Type Folding 2 blades PBW 0.110 PIPA 0.0055			CENTERBOARD N/A		Stability (Estimated) Limit Positive Stab.: 123.1° Stability Index: 120.0	
SCORING OPTIONS						
	Time on Distance	Time on Time				
Coastal or Long Distance	493.6	1.2157				
Circular Random	503.0	1.1928				
Predominantly Upwind	492.2	1.2191				
Predominantly Downwind	455.1	1.3185				
Owner						



Polar Plot for Boat	
Name	DRAGON
Sail Number	USA 54
Class	Class 40
Designer	OWEN CLARKE
Builder	COMPOSITE CREATION
Issued On	11/01/2021 - VPP 2020 1.02

2020

Double Handed Certificate Appendix

BOAT			
Name	DRAGON	Certificate Number	US6488
Sail Nr	USA 54	Issued On	11/01/2021

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	790.7	675.8	626.6	603.0	592.9	581.7	575.4
52°	513.3	460.3	442.4	432.9	424.9	423.0	412.1
60°	482.1	445.1	427.6	415.6	405.1	397.5	389.6
75°	460.2	428.1	403.8	386.2	375.1	366.7	359.0
90°	457.8	418.7	389.0	369.2	354.2	343.6	326.4
110°	490.1	439.9	405.0	374.1	344.6	325.8	293.5
120°	526.7	443.6	402.2	371.3	344.8	323.2	286.9
135°	590.6	470.8	425.8	384.0	341.4	309.8	263.4
150°	703.9	559.3	476.1	425.9	388.9	352.1	282.3
Run VMG	812.8	645.8	549.7	491.0	451.7	406.6	326.0
Selected Courses							
Windward / Leeward	801.7	660.8	588.2	547.0	522.3	494.1	450.7
Circular Random	679.0	555.8	489.9	450.3	423.6	403.3	371.7
Coastal / Long Distance	802.8	622.0	530.3	473.4	438.5	405.5	352.8
Non Spinnaker	753.5	608.1	528.9	480.9	449.2	426.3	393.3

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	43.5°	40.9°	38.3°	37.5°	36.9°	35.6°	36.0°
Beat VMG	4.55	5.33	5.75	5.97	6.07	6.19	6.26
52°	7.01	7.82	8.14	8.32	8.47	8.51	8.74
60°	7.47	8.09	8.42	8.66	8.89	9.06	9.24
75°	7.82	8.41	8.92	9.32	9.60	9.82	10.03
90°	7.86	8.60	9.25	9.75	10.16	10.48	11.03
110°	7.35	8.18	8.89	9.62	10.45	11.05	12.27
120°	6.84	8.12	8.95	9.70	10.44	11.14	12.55
135°	6.10	7.65	8.46	9.38	10.54	11.62	13.67
150°	5.11	6.44	7.56	8.45	9.26	10.22	12.75
Run VMG	4.43	5.57	6.55	7.33	7.97	8.85	11.04
Gybe Angles	143.0°	143.8°	148.5°	155.0°	154.0°	146.5°	144.3°