



ORC
Offshore Racing Congress
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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **US6587**
Issued On **08/01/2021**
ORC Ref **03410000TL6**
VPP Ver. **2020 1.02**
Valid until **31/01/2021**

Crew Weight

Default **1,553kg**
Maximum **1,553kg**
Minimum* **1,165kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	470.2	1.2761
Non Spin OSN	462.7	1.2967

Sails Limitations

Headsails **8** Spinnakers **6**

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 242.50**
Flying H/S: **Yes 205.42**
Spin. Pole: **Yes**

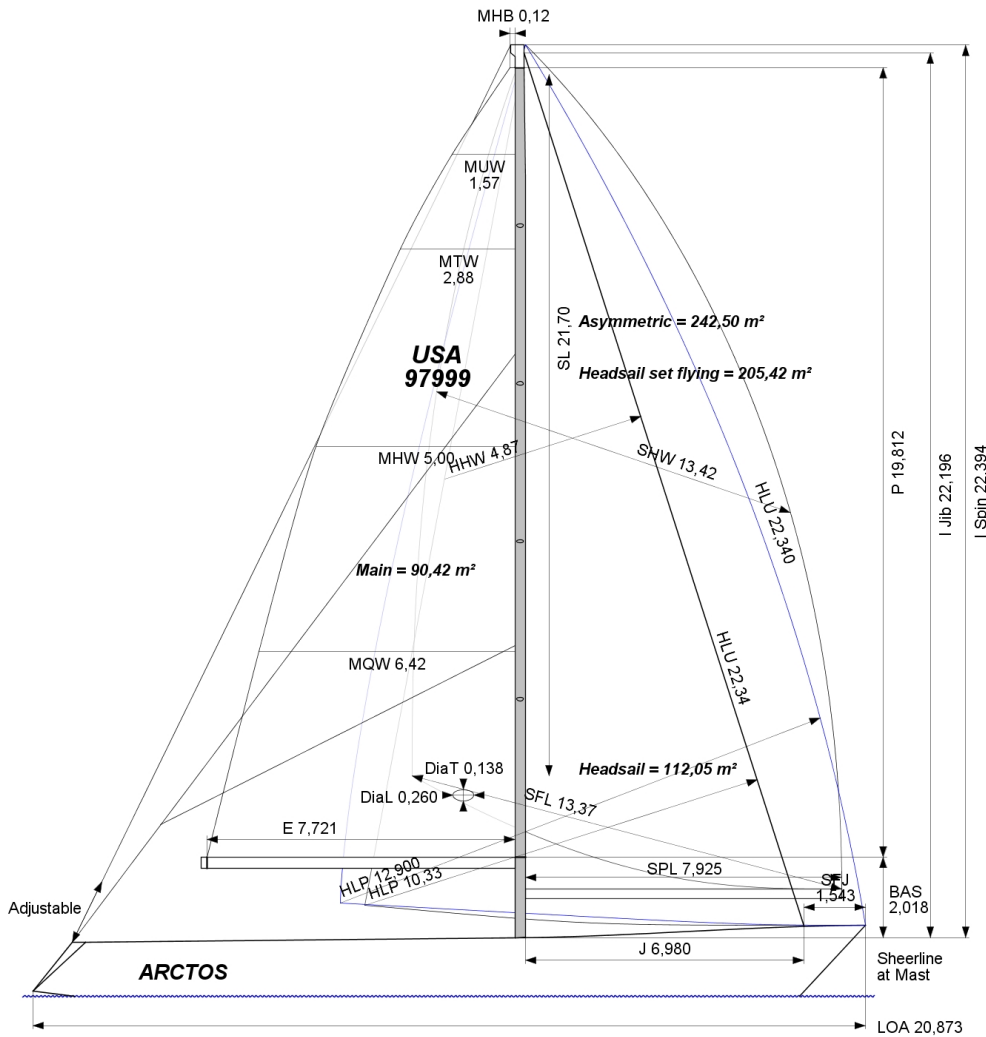
Class Division Length

CDL = 16.996

Stability (Measured)

Limit Positive Stab.: **115.6°**
Stability Index: **120.4**

Owner



BOAT	GPH	HULL
Name ARCTOS Sail Nr USA-97999	443.4	Data File US6587 LOA 20.873m Offset File us302301.off MB 4.621m Displacement 11,272kg Draft 3.180m
CLASS Class AND70 Designer ANDREWS Builder DENCHO Series 05/1992 Age Date 05/1992 Age Allowance 0.487%		IMS Division Performance Dynamic All. 0.000% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex 0.00 Carbon Rudder Yes Light Stanchions No
COMMENTS 5 GAL OF FUEL, FBD ADJ SCALE = 25220lbs W 5 GAL FUEL		IMSL 18.139m VCGD -0.023m Sink 40.51kg/mm RL 15.804m VCGM -0.015m WS 49.41m² LSM0 17.694m Displacement/Length ratio 2.0348
PROPELLER Installation Strut PRD 0.467 Type Folding 2 blades PBW 0.119 PIPA 0.0038		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	436.6	498.8
Time on Time	1.3741	1.3533
Triple Number	Low Medium High	Low Medium High
Time on Distance	507.6 393.8 344.4	682.3 501.9 430.0
Time on Time	1.3298 1.7140 1.9598	0.9893 1.3449 1.5697

2020

ORC Club Certificate Appendix

BOAT			
Name	ARCTOS	Certificate Number	US6587
Sail Nr	USA-97999	Issued On	08/01/2021

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	743.0	612.2	558.2	531.2	517.7	508.8	495.1
52°	474.5	399.0	374.9	364.7	358.7	356.5	346.7
60°	439.6	377.6	360.5	351.4	345.1	341.1	329.6
75°	399.4	361.0	343.0	327.6	317.8	311.2	308.8
90°	386.4	349.8	327.0	311.4	300.1	291.6	280.4
110°	403.4	355.9	330.0	306.3	288.8	275.0	253.4
120°	437.6	371.9	346.4	320.7	296.7	276.0	242.6
135°	555.7	433.1	369.8	339.3	309.3	282.6	242.2
150°	670.6	519.2	428.7	378.1	348.0	320.2	267.4
Run VMG	774.3	599.5	495.0	436.6	398.9	369.7	308.8
Selected Courses							
Windward / Leeward	758.7	605.9	526.6	483.9	458.3	439.3	401.9
Circular Random	610.8	493.5	430.5	393.3	369.2	351.7	325.2
Coastal / Long Distance	760.2	565.6	469.6	413.5	381.3	353.9	306.2
Non Spinnaker	657.3	527.0	455.9	413.3	385.6	366.0	338.2

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	45.0°	43.1°	41.6°	40.1°	39.4°	39.0°	39.0°
Beat VMG	4.85	5.88	6.45	6.78	6.95	7.08	7.27
52°	7.59	9.02	9.60	9.87	10.04	10.10	10.38
60°	8.19	9.53	9.99	10.25	10.43	10.55	10.92
75°	9.01	9.97	10.49	10.99	11.33	11.57	11.66
90°	9.32	10.29	11.01	11.56	12.00	12.35	12.84
110°	8.92	10.11	10.91	11.75	12.47	13.09	14.20
120°	8.23	9.68	10.39	11.23	12.13	13.04	14.84
135°	6.48	8.31	9.74	10.61	11.64	12.74	14.86
150°	5.37	6.93	8.40	9.52	10.35	11.24	13.46
Run VMG	4.65	6.00	7.27	8.24	9.03	9.74	11.66
Gybe Angles	141.0°	141.8°	144.0°	150.0°	155.0°	151.5°	147.0°