

 ORC Offshore Racing Congress <i>World leader in rating technology</i>										
2020 ORC Club Certificate										
Rating Office US SAILING 1 RWU WAY BRISTOL, RI 02809 USA										
 US SAILING										
Certificate Number US6716 Issued On 22/09/2020 ORC Ref 03410000QRL VPP Ver. 2020 1.02 Valid until 31/12/2020										
Crew Weight Default 631kg Maximum 631kg Minimum* 473kg <i>*when applied by the NoR and S</i> Non Manual Pwr No										
Special Scoring <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: right;">ToD</th> <th style="text-align: right;">Tot</th> </tr> </thead> <tbody> <tr> <td>Non Spin GPH</td> <td style="text-align: right;">660.0</td> <td style="text-align: right;">0.9091</td> </tr> <tr> <td>Non Spin OSN</td> <td style="text-align: right;">638.9</td> <td style="text-align: right;">0.9392</td> </tr> </tbody> </table>			ToD	Tot	Non Spin GPH	660.0	0.9091	Non Spin OSN	638.9	0.9392
	ToD	Tot								
Non Spin GPH	660.0	0.9091								
Non Spin OSN	638.9	0.9392								
Sails Limitations Headsails 5 Spinnakers 4 Asymmetric on centerline Spinnaker configuration Symmetric: No Asymmetric: Yes 120.31 Flying H/S: No Spin. Pole: No										
Class Division Length CDL = 9.168										
Stability (Measured) Limit Positive Stab.: 119.0° Stability Index: 118.2										
Owner BILL KNELLER										
I certify that I understand my responsibilities under ORC Rules and Regulations Signature										

BOAT

Name VENTO SOLARE

Sail Nr USA-266

File US6716

Data in meters/kilograms

RIG

Forestay Tension Aft

Inner Stay None Fitted

Carbon Mast No

Fiber Rigging No

Non-Circular Rigging No

Articulated Bowsprit No

Spreaders 2

Runners/Checkstays 0

Jib Furler Yes

Main Furler No

P 13.180

E 4.720

MDT1 0.107

MW 0.168

IG 14.170

J 4.050

MDL1 0.188

GO 0.168

ISP 14.900

SFJ 0.000

MDT2 0.107

BD 0.161

BAS 1.625

SPL 0.000

MDL2 0.153

MWT 0.00

FSD 0.029

TPS 5.730

TL 0.620

MCG 0.000

INCLINING TEST AND FREEBOARDS

Inclining Test Current Inclining

Flotation date 12/06/2007

SG 1.0000

FFM 1.259

FF 1.275

SFFP 0.420

FAM 0.996

FA 0.998

SAFP 10.254

W1 59.7

PD1 248.0

WD 10.820

W2 59.7

PD2 248.0

GSA 50.3

W3 59.7

PD3 248.0

RSA 17203.

W4 59.7

PD4 248.0

PLM 2661.0

LCF from stem on CL / on sheer

5.956 / 6.201

Maximum beam station from stem

6.540

RM Measured

120.9kg·m

RM Default

115.8kg·m

Limit of positive stability / Stab.Index

119.0° / 118.2

Freeboard at mast at 4.050

1.113

MIZZEN RIG AND SAILS

N/A

PROPELLER

Installation Strut

PRD 0.000

Type Folding 2 blades

PBW 0.000

Twin Screw No

PIPA 0.0032

ST1 0.048

ST3 0.000

ST5 0.320

ST2 0.000

ST4 0.097

EDL 1.570

COMMENTS

MOVABLE BALLAST

N/A

CENTERBOARD

N/A

Certificate

Number US6716

ORC Ref 03410000QRL

Issued On 22/09/2020

VPP Ver. 2020 1.02

Valid until 31/12/2020

SAILS INVENTORY

MAINSAIL (1)

Id MHB MUW MTW MHW MQW Area Measurer Meas.Date Manufacture Material Comment

1512720N 0.18 1.00 1.79 3.09 4.00 37.36 * Copied from legacy

HEADSAILS (2)

Id HHB HUW HTW HHW HQW HLP HLU OvrIp Area Btn Flying Measurer Meas.Date Manufacture Material Comment

1804904 2.11 4.25 13.89 105% 29.87 No Unknow

1804908 1.06 2.11 3.19 4.25 13.90 105% 29.68 No LIGHT/MED JIB

SYMMETRIC SPINNAKERS (0)

Id SLU SLE SL SHW SFL Area Measurer Meas.Date Manufacture Material Comment

ASYMMETRIC SPINNAKERS (1)

Id SLU SLE SL SHW SFL Area Kind Measurer Meas.Date Manufacture Material Comment

ORC 15.90 15.90 15.90 8.80 10.20 120.31 asym * Copied from legacy *

MEASUREMENT INVENTORY

Measurer

Date

Comment

Internal Ballast total = 0.0

Id Item Weight Distance VCG Description

OR Anchor 18.0 0.60 *Legacy Anchor*

Id Item Weight Description

MEASUREMENT INVENTORY

Id Item Weight Distance VCG Description



ORC

Offshore Racing Congress

World leader in rating technology

2020

Measurements

Datasheet



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2020

ORC Club Certificate Appendix

BOAT			
Name	VENTO SOLARE	Certificate Number	US6716
Sail Nr	USA-266	Issued On	22/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1058.1	872.5	764.9	713.8	697.0	690.3	677.4
52°	691.3	581.8	526.6	505.1	497.1	493.5	488.3
60°	652.7	555.5	512.4	493.4	483.8	479.5	475.6
75°	624.8	537.2	501.7	482.3	467.9	457.3	448.7
90°	614.9	520.1	492.1	479.8	462.3	445.5	422.2
110°	602.1	510.2	476.6	453.0	438.1	426.6	404.7
120°	616.5	517.1	479.8	451.6	426.2	408.3	383.3
135°	692.5	557.1	498.4	469.2	440.9	414.0	360.0
150°	817.6	653.8	553.2	503.7	481.0	461.5	414.1
Run VMG	944.1	754.9	638.8	581.2	552.3	509.9	463.6
Selected Courses							
Windward / Leeward	1001.1	813.7	701.9	647.5	624.7	600.1	570.5
Circular Random	844.1	683.3	598.3	549.9	520.6	501.1	474.2
Coastal / Long Distance	995.4	763.3	634.9	566.6	532.5	502.6	454.7
Non Spinnaker	926.3	740.3	639.1	579.7	543.0	518.9	487.7

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°	41.3°	40.5°	38.6°	38.3°	38.3°	37.9°
Beat VMG	3.40	4.13	4.71	5.04	5.16	5.22	5.31
52°	5.21	6.19	6.84	7.13	7.24	7.30	7.37
60°	5.52	6.48	7.03	7.30	7.44	7.51	7.57
75°	5.76	6.70	7.17	7.46	7.69	7.87	8.02
90°	5.85	6.92	7.32	7.50	7.79	8.08	8.53
110°	5.98	7.06	7.55	7.95	8.22	8.44	8.90
120°	5.84	6.96	7.50	7.97	8.45	8.82	9.39
135°	5.20	6.46	7.22	7.67	8.17	8.69	10.00
150°	4.40	5.51	6.51	7.15	7.49	7.80	8.69
Run VMG	3.81	4.77	5.64	6.19	6.52	7.06	7.77
Gybe Angles	144.0°	148.0°	148.3°	150.5°	174.0°	177.0°	177.5°