

BOAT	GPH	HULL
Name RATTLE AND RUM Sail Nr USA2604	606.1	Length Overall 7.900m Maximum Beam 2.554m Displacement 1,142kg Draft 1.902m IMS Reg. Division Sportboat Dynamic Allowance 0.001% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL		IMSL 7.885m VCGD -0.135m Sink 10.12kg/mm RL 8.130m VCGM -0.141m WS 12.92m² LSM0 7.635m Displacement/Length ratio 2.5659
Class GP 26 Designer DONOVAN Builder Mag Marin Istanbul Series 01/2011 Age 01/2015 Age Allowance 0.260% Offset File wracegp26.off - 27/04/2013 16:35:56 Measurement by - 18/10/2017		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	589.6			664.2		
Time on Time	1.0177			1.0163		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	684.2	542.8	470.3	877.4	673.2	574.1
Time on Time	0.9866	1.2436	1.4352	0.7693	1.0027	1.1758

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1014.0	826.4	757.9	740.6	734.2	722.4	722.2
52°	664.8	567.2	539.2	530.0	525.4	516.8	510.1
60°	628.0	552.8	521.5	508.6	501.6	493.0	481.3
75°	602.0	541.7	500.1	472.7	460.5	453.5	433.1
90°	596.8	538.1	500.0	455.2	424.9	411.0	397.5
110°	586.1	513.8	472.3	445.4	417.6	394.3	340.2
120°	598.4	520.0	460.0	423.2	399.4	373.7	326.5
135°	678.3	553.6	493.0	433.6	378.0	336.2	287.2
150°	807.3	638.1	553.7	498.2	443.6	391.9	289.1
Run VMG	932.2	736.9	639.6	575.3	512.2	452.5	333.9
Selected Courses							
Windward / Leeward	973.1	781.6	698.8	658.0	623.2	587.4	528.0
Circular Random	826.8	672.2	589.5	540.0	506.4	480.6	439.5
Coastal / Long Distance	969.0	737.8	632.2	568.5	524.9	483.5	416.0
Non Spinnaker	908.3	729.6	633.1	575.8	538.7	511.9	472.7

Certificate

Number **US6003**
ORC Ref **USAX021FQCO**
Issued On **05/03/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight

Default **468kg**
Maximum **450kg**
Minimum* **338kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **652.7 0.9193**
Non Spin OSN **632.9 0.9481**

Sails Limitations

Headsails	Spinnakers
5	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	42.6°	41.1°	38.0°	37.2°	37.2°	36.8°	37.2°
Beat VMG	3.55	4.36	4.75	4.86	4.90	4.98	4.99
52°	5.42	6.35	6.68	6.79	6.85	6.97	7.06
60°	5.73	6.51	6.90	7.08	7.18	7.30	7.48
75°	5.98	6.65	7.20	7.62	7.82	7.94	8.31
90°	6.03	6.69	7.20	7.91	8.47	8.76	9.06
110°	6.14	7.01	7.62	8.08	8.62	9.13	10.58
120°	6.02	6.92	7.83	8.51	9.01	9.63	11.03
135°	5.31	6.50	7.30	8.30	9.52	10.71	12.53
150°	4.46	5.64	6.50	7.23	8.12	9.19	12.45
Run VMG	3.86	4.89	5.63	6.26	7.03	7.96	10.78
Gybe Angles	143.5°	146.7°	150.5°	148.5°	144.8°	144.2°	144.5°

Class Division Length

CDL = **8.008**

Storm Sails Areas

Heavy Weather Jib **11.78**
Storm Jib (JL=6.07) **4.36**
Storm Trysail **6.67**

Owner

BOAT Name RATTLE AND RUM Sail Nr USA2604 File US6003 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Current Inclining Flotation date 18/10/2017 SG 1.0110		 ORC Offshore Racing Congress World leader in rating technology 2019 IMS Measurement Certificate
RIG Forestay Tension Aft Spreaders 1 Inner Stay None Fitted Runners 0 Carbon Mast Yes Jumper Struts None Taper Hollows No Jib Furler No Fiber Rigging No Main Furler No Lenticular Rigging No Without Backstay No Articulated Bowsprit No		FFM 0.929 FF 0.931 SFFP 0.500 FAM 0.736 FA 0.737 SAFFP 7.895 W1 21.3 PD1 571.0 WD 10.560 W2 21.3 PD2 568.0 GSA 1.0 W3 21.3 PD3 569.0 RSA 1.0 W4 21.3 PD4 568.0 PLM 9000.0		
P 9.787 E 3.890 MDT1 0.073 MW 0.135 IG 9.338 J 2.862 MDL1 0.135 GO 0.135 ISP 11.238 SFJ 0.230 MDT2 0.065 BD 0.150 BAS 1.313 SPL 0.110 MDT2 0.065 BD 0.150 FSP 0.000 TPS 4.741 TL 1.750 MCG 3.460		LCF from stem on CL / on sheer 4.466 / 4.620 Maximum beam station from stem 5.854 RM Measured 31.1kg-m RM Default 33.2kg-m Limit of positive stability / Stab.Index 115.8° / 108.1 Freeboard at mast at 3.092 0.860		
MIZZEN RIG AND SAILS N/A		PROPELLER Type No Propeller		
COMMENTS 		MOVABLE BALLAST N/A		
		BILGEBOARD BS BT BA BF BX BC BY		

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	1.350	1.53	2.07	2.85	3.39	26.52	27.55	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL				
	12.69	10.99	11.84	7.66	8.12	76.49		AS · (SFL + 4·SHW) / 6	

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
0.06	0.44	0.84	1.60	2.34	3.10	9.37	14.86	Y	
Meas.Date	Material	Comment							

MEASUREMENT INVENTORY				
Measurer Date Comment				
Id	Item	Weight	Distance	VCG Description
a	Anchor	0.0	0.00	
Id	Item	Weight	Distance	VCG Description

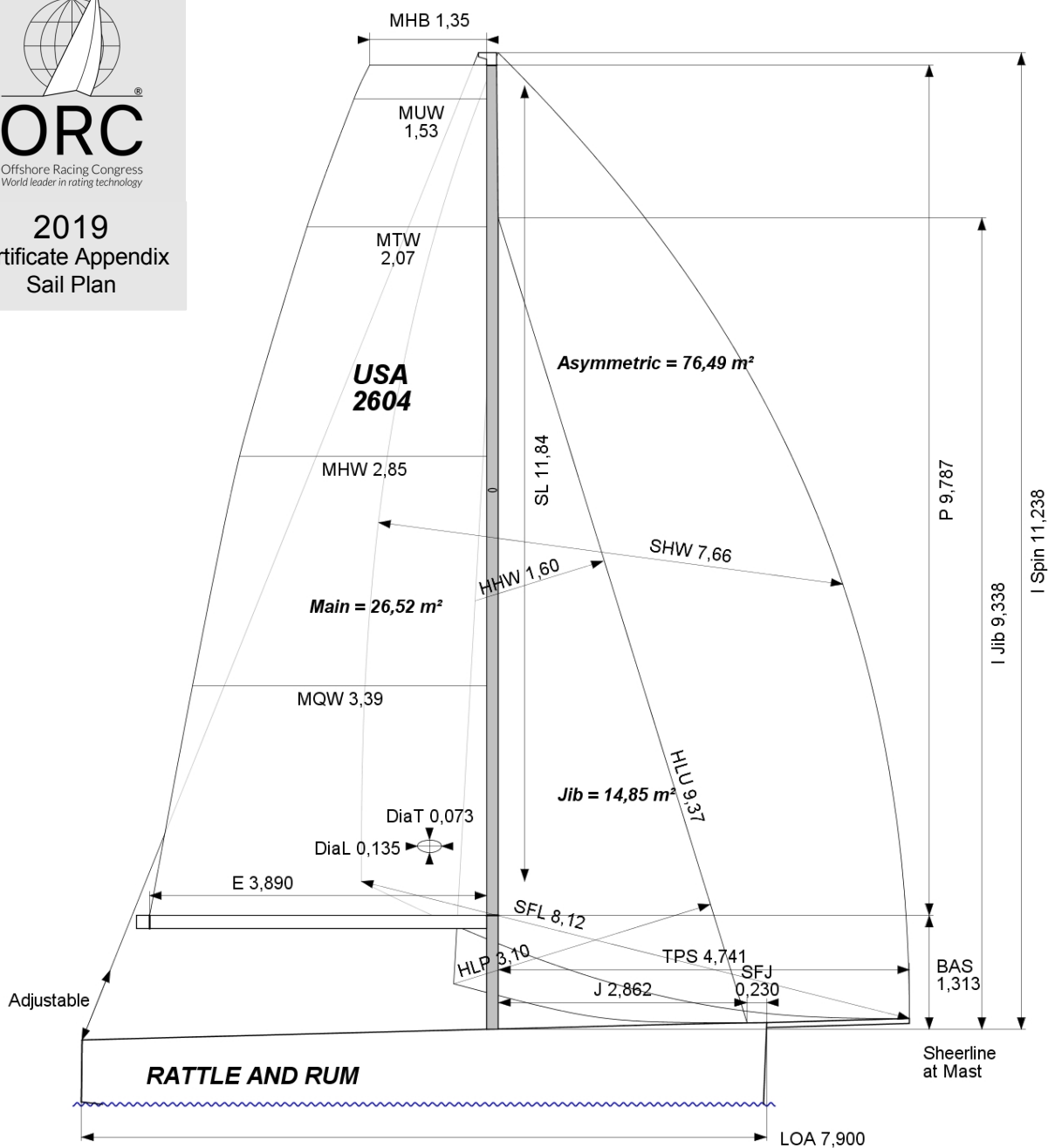
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtm Description
	Tank				0.00	0.00	0-0
Id	Item	Weight	Distance	VCG Description			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1706933	1.35	1.53	2.07	2.85	3.39	26.53					

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1706949	0.06	0.44	0.84	1.60	2.34	3.10	9.37	108%	14.86	Y						

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1706959	12.69	10.99	11.84	7.66	8.12	76.49	asym					