

BOAT
Name Wahoo
Sail Nr USA 52599

GPH
484.1

HULL	
Length Overall	15.338m
Maximum Beam	4.174m
Displacement	9,913kg
Draft	3.120m
Plan Review	
IMS Reg. Division	Performance
Dynamic Allowance	0.000%
Hull Construction	Carbon
Carbon Rudder	Yes
Crew Arm Extension	0.00
IMSL	14.557m VCGD -1.006m Sink 29.18kg/mm
RL	13.922m VCGM -0.938m WS 41.57m²
LSM0	14.207m Displacement/Length ratio 3.4570



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2020
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GENERAL
Class KER 50
Designer Ker
Builder NEW ENGLAND BOAT
Series 03/2012
Age 03/2012
Age Allowance 0.260%
Offset File SN2012.OFF - 10/03/2018 17:49:24
Measurement by -

Rating Office

Offshore
Racing
Congress

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	470.3			528.8		
Time on Time	1.2757			1.2765		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	550.5	430.6	379.1	711.7	531.3	461.0
Time on Time	1.2261	1.5677	1.7806	0.9484	1.2705	1.4643



TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	812.7	662.5	593.1	565.9	552.4	541.7	527.2
52°	530.6	441.0	410.1	398.9	393.0	389.4	379.4
60°	499.2	423.6	398.9	386.7	379.6	374.8	364.6
75°	474.7	412.9	389.4	371.5	357.2	348.8	339.8
90°	480.1	415.4	390.6	369.4	348.7	332.0	312.3
110°	489.1	411.1	384.2	368.0	350.8	334.6	303.9
120°	503.8	415.2	382.0	356.6	338.9	323.1	292.9
135°	555.5	444.1	398.6	369.4	339.0	309.9	268.0
150°	663.9	524.1	446.4	401.4	376.5	348.2	290.8
Run VMG	766.6	605.2	515.4	461.4	427.6	400.4	335.8

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ORC Ref 03410000PCU
Issued On 31/08/2020
VPP Ver. 2020 1.02
Valid until 31/12/2020

Selected Courses							
Windward / Leeward	789.6	633.9	554.3	513.6	490.0	471.1	431.5
Circular Random	664.9	537.6	470.0	430.6	405.2	386.6	357.7
Coastal / Long Distance	787.3	596.0	501.4	447.6	417.4	390.0	342.2
Non Spinnaker	734.5	587.0	506.6	458.4	427.3	405.3	374.6

Crew Weight
Default 1,136kg
Maximum 1,150kg
Minimum* 863kg
*when applied by the NoR and SI
Non Manual Pwr No

Special Scoring	
ToD	ToT
Non Spin GPH 522.7	1.1479
Non Spin OSN 510.4	1.1754

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°	41.4°	39.8°	38.3°	37.9°	37.1°	36.8°
Beat VMG	4.43	5.43	6.07	6.36	6.52	6.65	6.83
52°	6.78	8.16	8.78	9.02	9.16	9.24	9.49
60°	7.21	8.50	9.02	9.31	9.48	9.61	9.87
75°	7.58	8.72	9.24	9.69	10.08	10.32	10.60
90°	7.50	8.67	9.22	9.75	10.33	10.84	11.53
110°	7.36	8.76	9.37	9.78	10.26	10.76	11.84
120°	7.15	8.67	9.43	10.10	10.62	11.14	12.29
135°	6.48	8.11	9.03	9.75	10.62	11.62	13.43
150°	5.42	6.87	8.06	8.97	9.56	10.34	12.38
Run VMG	4.70	5.95	6.98	7.80	8.42	8.99	10.72
Gybe Angles	142.0°	144.0°	147.8°	154.5°	160.0°	155.0°	146.0°

Sails Limitations	
Headsails	Spinnakers
7	5

Class Division Length
CDL = 14.237

Storm Sails Areas	
Heavy Weather Jib	54.23
Storm Jib (JL=13.03)	20.09
Storm Trysail	24.16

Owner

BOAT	
Name Wahoo	Sail Nr USA 52599
File US6266	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners/Checkstays 0
Carbon Mast Yes	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 20.510	E 6.730 MDT1 0.125 MW 0.248
IG 19.995	J 6.050 MDL1 0.248 GO 0.262
ISP 22.465	SFJ 0.500 MDT2 0.095 BD 0.325
BAS 1.970	SPL 7.999 MDL2 0.185 MWT 296.00
FSD 0.042	TPS 0.000 TL 2.750 MCG 6.890

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 07/06/2012	SG 1.0200	
FFM 1.608	FF 1.618	SFFP 1.000
FAM 1.300	FA 1.304	SAFP 15.075
W1 145.7	PD1 451.9	WD 13.760
W2 145.7	PD2 451.9	GSA 1.0
W3 145.7	PD3 451.9	RSA 1.0
W4 145.7	PD4 451.9	PLM 9000.0
LCF from stem on CL / on sheer	8.333 / 8.566	
Maximum beam station from stem	10.575	
RM Measured	349.4kg-m	
RM Default	312.7kg-m	
Limit of positive stability / Stab.Index	152.2° / 157.5	
Freeboard at mast at 6.550	1.465	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.460	
Type Folding 2 blades	PBW 0.105	
Twin Screw No	PIPA 0.0036	
ST1 0.022	ST3 0.205	ST5 0.275
ST2 0.190	ST4 0.114	EDL 2.950

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0.26	1.57	2.53	4.07	5.43	80.05 81.31 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric Not Available						
Asymmetric	SLU	SLE	SL	SHW	SFL	Area Formula
	25.08	21.63	23.36	11.89	13.21	236.55 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	Flying	Meas.Date	Material	Comment
0.12	0.88	1.64	3.12	4.54	6.00	19.94	61.44	No				Med 1 Jib 2018

MEASUREMENT INVENTORY				
Measurer	Date	Comment	Internal Ballast total = 0.0	
Id	Item	Weight	Distance	VCG Description
a	Anchor	0.0	0.00	
Id	Item	Weight Description		

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

