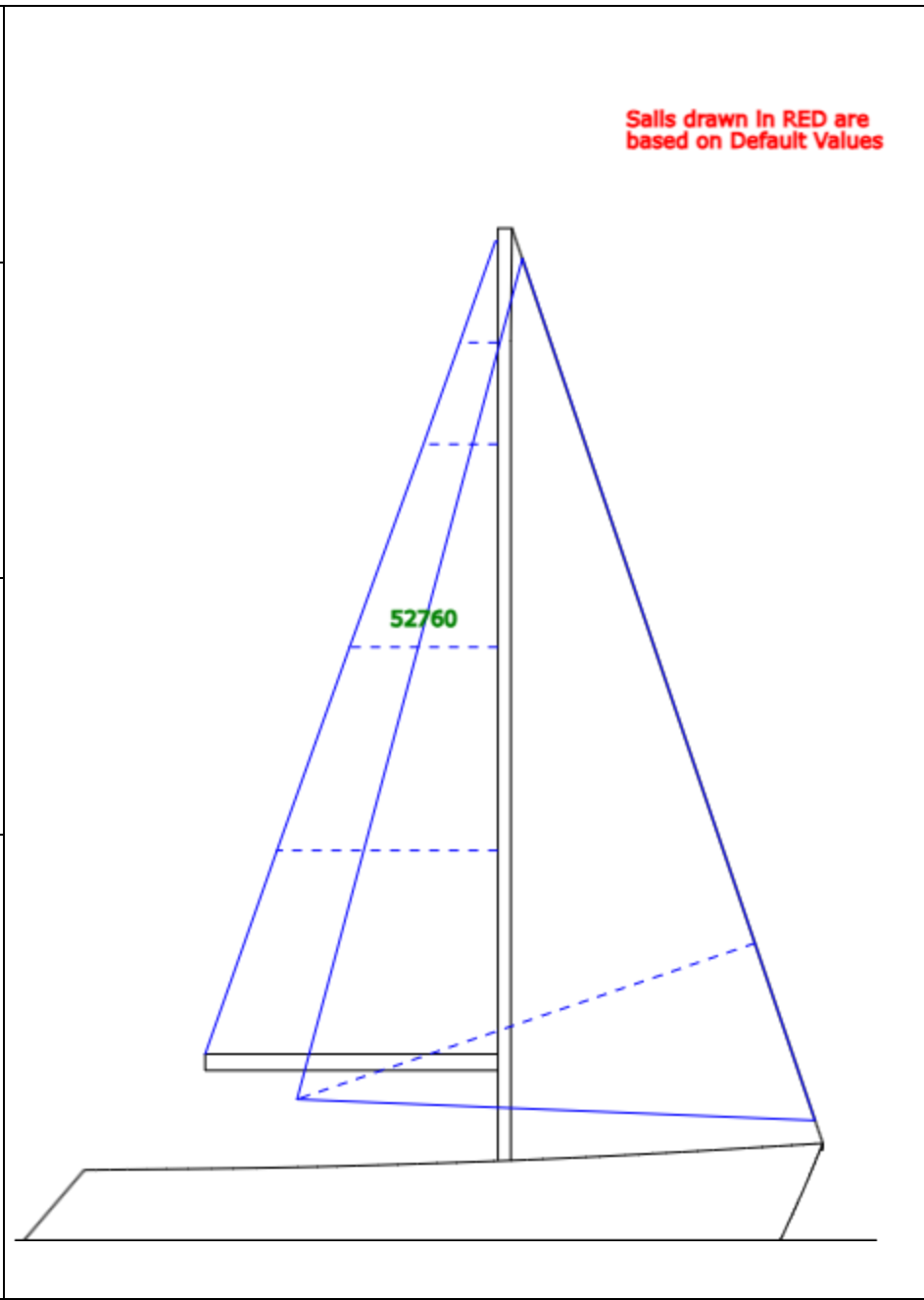


Class: Beneteau Oceanis 473  
 Configuration:  
 Sail Number: 52760  
 Year Built: 2005  
 Builder: BENETEAU  
 Owner(s): Madruga, Robert

Certificate #: EZ11829  
 Valid Year: 2023  
 Type: New Cert  
 Issue Date: 2023-09-25  
 Exp.Date: 2023-12-31  
 Offsets\_file: BEN473sd.OFF  
 Cert Group: ORR-Ez SOCAL  
 Comment:

Rig Type: Sloop  
 Forestay: Masthead  
 Keel Type: Fixed  
 Prop Type: Feathering  
 Prop Install: Strut Drive  
 Prop Blades: 3

LOA: 47.00 ft  
 LWL: 43.80 ft  
 Rated Length: 44.38 ft  
 Beam Max: 14.29 ft  
 Draft: 5.57 ft  
 Disp Empty: 25496 lbs  
 Disp Sailing: 28186 lbs  
 Crew: 1396 lbs  
 Water Ballast: lbs  
 Wetted Area: 480.9 ft<sup>2</sup>  
 LPS: 107.3 °  
 RM20: 2031.1 ft-lbs  
 Stab Index: 113 °



Spinnaker: None  
 Code Zero: No  
 Genoa/Jib Leech: No Roach - Leech is straight  
 Large Roach Headsail: No  
 Jib Furler: Yes Above Deck  
 Main Roller Furling: Yes In Mast

**Rig Dimensions**  
 IG: 54.40 ft  
 J: 18.21 ft  
 P: 47.42 ft  
 E: 17.08 ft

**Mainsail Meas.**  
 HB: 0.15 ft  
 MGT: 2.22 ft  
 MGU: 4.34 ft  
 MGM: 8.65 ft  
 MGL: 12.89 ft  
 Area: 409.2 ft<sup>2</sup>

**Jib/Genoa Meas.**  
 LP: 28.23 ft  
 LPG %: 155.0 %  
 J Luff: 54.49 ft  
 J Leech: 51.68 ft  
 Area: 769.1 ft<sup>2</sup>

### Windsome Beneteau Oceanis 473 52760

#### Table of Time Allowances (sec/mile)\* (at True Wind Angles)

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	51.0	50.0	48.9	47.3	47.3	44.7	43.7	44.0
Beat VMG	1,794.3	1,260.7	999.4	874.0	793.2	711.9	680.0	673.1
52°	1,096.42	774.23	617.21	539.20	496.70	460.94	446.91	442.65
60°	936.50	674.16	549.47	484.16	458.58	433.76	423.02	419.42
75°	813.49	591.56	487.98	444.40	422.68	403.54	394.38	390.67
90°	800.69	582.67	481.04	439.72	416.44	389.32	378.69	373.16
110°	896.33	651.12	536.44	470.93	440.28	403.31	377.37	357.96
120°	1,079.98	759.21	602.20	520.03	467.19	419.22	389.05	365.08
135°	1,490.87	997.20	750.38	618.06	538.16	446.17	405.17	376.20
150°	1,735.19	1,144.78	849.78	688.09	586.41	468.00	416.34	383.62
165°	1,770.17	1,178.94	883.31	711.56	602.08	473.90	416.01	380.18
Run VMG	1,782.9	1,187.4	889.6	716.6	606.4	477.6	419.8	384.2
Opt Run Angle	171.7	171.8	171.9	171.9	172.0	172.1	172.7	172.7

\* Sec/mile rating assume gybing downwind when target angles are deeper than best VMG angles.

#### Performance Metrics

SA/D Dnwind:	20.360
SA/D Average:	20.36
SA/D Upwind:	20.360
D/Length:	144.0
Ave Perf Screen:	14.100
DnWind Perf	14.1
Screen:	

#### Standard Ratings

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.343	0.571	0.821	1.022	1,394.8	836.9	582.8	468.0
W50/L50	0.325	0.553	0.814	1.043	1,805.4	1,061.6	719.5	561.7
W60/L40	0.331	0.557	0.810	1.017	1,808.2	1,072.8	738.4	588.1
MOSTLY WW	0.355	0.584	0.807	0.957	1,693.0	1,030.7	746.2	629.5
MOSTLY LW	0.315	0.543	0.816	1.080	1,500.7	871.5	579.0	437.5

#### Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.790	667.8
IR#	0.818	653.1

#### ORR-Ez PHRF

TOD (Spin)
116.8

ORR-Ez PHRF are based on the Farr 40 MH as Scratch Boat.

#### Standard PCS Ratings

	TOD (Spin)							
	4	6	8	10	12	16	20	24
RANDOM LEG	1,396.2	971.6	762.1	646.1	575.2	499.8	465.0	448.0
W50/L50	1,805.5	1,240.6	960.0	805.4	708.7	602.1	555.7	534.1
W60/L40	1,808.1	1,249.1	972.0	821.4	727.8	625.7	582.0	563.3
MOSTLY WW	1,692.7	1,185.6	936.6	814.8	736.8	656.2	623.8	614.2
MOSTLY LW	1,500.7	1,023.4	785.6	653.7	569.4	477.7	433.5	405.4

#### ORR-Ez PHRF Time Allowance 4 Winds

	TOD (Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	404.4	203.6	100.9	64.4
W50/L50	598.5	293.2	132.8	75.3
W60/L40	592.1	298.2	142.3	82.6
MOSTLY WW	525.9	280.0	146.5	88.1
MOSTLY LW	556.2	251.6	101.2	63.4

### Windsome Beneteau Oceanis 473 52760

#### Table of Time Allowances (sec/mile)\* (at True Wind Angles)

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	51.0	50.0	48.9	47.3	47.3	44.7	43.7	44.0
Beat VMG	1,794.3	1,260.7	999.4	874.0	793.2	711.9	680.0	673.1
52°	1,096.42	774.23	617.21	539.20	496.70	460.94	446.91	442.65
60°	936.50	674.16	549.47	484.16	458.58	433.76	423.02	419.42
75°	813.49	591.56	487.98	444.40	422.68	403.54	394.38	390.67
90°	800.69	582.67	481.04	439.72	416.44	389.32	378.69	373.16
110°	896.33	651.12	536.44	470.93	440.28	403.31	377.37	357.96
120°	1,079.98	759.21	602.20	520.03	467.19	419.22	389.05	365.08
135°	1,490.87	997.20	750.38	618.06	538.16	446.17	405.17	376.20
150°	1,735.19	1,144.78	849.78	688.09	586.41	468.00	416.34	383.62
165°	1,770.17	1,178.94	883.31	711.56	602.08	473.90	416.01	380.18
Run VMG	1,782.9	1,187.4	889.6	716.6	606.4	477.6	419.8	384.2
Opt Run Angle	171.7	171.8	171.9	171.9	172.0	172.1	172.7	172.7

#### Performance Metrics

SA/D:	20.36
D/Length:	144.0
Perf Screen:	14.1

\* Sec/mile rating assume gybing downwind when target angles are deeper than best VMG angles.

#### Standard Ratings

	V.Light	TOT (Non-Spin)			V.Light	TOD (Non-Spin)		
		Light	Medium	Heavy		Light	Medium	Heavy
RANDOM LEG	0.343	0.571	0.821	1.022	1,394.8	836.9	582.8	468.0
W50/L50	0.325	0.553	0.814	1.043	1,805.7	1,061.6	719.5	561.8
W60/L40	0.331	0.557	0.810	1.017	1,808.3	1,072.9	738.4	588.1
MOSTLY WW	0.356	0.584	0.807	0.957	1,693.0	1,030.7	746.2	629.5
MOSTLY LW	0.315	0.543	0.816	1.080	1,500.7	871.5	579.0	437.5

#### Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.790	667.8
IR#	0.819	653.1

#### ORR-Ez PHRF

TOD (Non-Spin)	116.8
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ORR-Ez PHRF are based on the Farr 40 MH as Scratch Boat.

#### Standard PCS Ratings

	TOD (Non-Spin)							
	4	6	8	10	12	16	20	24
RANDOM LEG	1,396.2	971.6	762.1	646.1	575.2	499.8	465.0	448.0
W50/L50	1,805.5	1,240.6	960.0	805.4	708.7	602.1	555.7	534.1
W60/L40	1,808.1	1,249.1	972.0	821.4	727.8	625.7	582.0	563.3
MOSTLY WW	1,692.7	1,185.6	936.6	814.8	736.8	656.2	623.8	614.2
MOSTLY LW	1,500.7	1,023.4	785.6	653.7	569.4	477.7	433.5	405.4

#### ORR-Ez PHRF Allowance 4 Winds

	TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	404.4	203.6	100.9	64.4
W50/L50	598.8	293.2	132.8	75.4
W60/L40	592.2	298.3	142.3	82.6
MOSTLY WW	525.9	280.0	146.5	88.1
MOSTLY LW	556.2	251.6	101.2	63.4