

Athena Beneteau 44.7 52447

Class: Beneteau 44.7 Configuration: Sail Number: 52447 Year Built: 2004 Builder: BENETEAU Owner(s): Cheresh, David																													
Certificate #: EZ11828 Valid Year: 2023 Type: New Cert Issue Date: 2023-09-20 Exp. Date: 2023-12-31 Offsets_file: F222.OFF Cert Group: ORR-Ez SOCAL Comment:																													
Rig Type: Sloop Forestay: Fractional Keel Type: Fin Prop Type: Folding Prop Install: Strut Drive Prop Blades: 2																													
LOA: 43.81 ft LWL: 37.68 ft Rated Length: 39.80 ft Beam Max: 13.01 ft Draft: 8.64 ft Disp Empty: 21524 lbs Disp Sailing: 23863 lbs Crew: 1955 lbs Water Ballast: 0 lbs Wetted Area: 411.1 ft ² LPS: 114.8 ° RM20: 1599.9 ft-lbs Stab Index: 121 °																													
Spinnaker: Asymmetrical tacked centerline on bow, sprit or prod Code Zero: No Genoa/Jib Leech: No Roach - Leech is straight Large Roach Headsail: No Jib Furler: No Main Roller Furling: No																													
<table border="1"> <thead> <tr> <th>Rig Dimensions</th> <th>Mainsail Meas.</th> <th>Jib/Genoa Meas.</th> <th>Asymmetric Spin. Meas.</th> </tr> </thead> <tbody> <tr> <td>IG: 57.41 ft</td> <td>HB: 0.82 ft</td> <td>LP: 24.46 ft</td> <td>ASLU: 67.25 ft</td> </tr> <tr> <td>ISP: 63.20 ft</td> <td>MGT: 4.49 ft</td> <td>LPG %: 154.0 %</td> <td>ASLE: 59.58 ft</td> </tr> <tr> <td>J: 15.88 ft</td> <td>MGU: 7.75 ft</td> <td>J Luff: 58.07 ft</td> <td>AMG: 33.30 ft</td> </tr> <tr> <td>P: 56.70 ft</td> <td>MGM: 13.26 ft</td> <td>J Leech: 54.54 ft</td> <td>ASF: 33.30 ft</td> </tr> <tr> <td>E: 20.40 ft</td> <td>MGL: 17.75 ft</td> <td>Area: 710.3 ft²</td> <td>Area: 1759.8 ft²</td> </tr> <tr> <td>TPS: 18.50 ft</td> <td>Area: 717.5 ft²</td> <td></td> <td></td> </tr> </tbody> </table>	Rig Dimensions	Mainsail Meas.	Jib/Genoa Meas.	Asymmetric Spin. Meas.	IG: 57.41 ft	HB: 0.82 ft	LP: 24.46 ft	ASLU: 67.25 ft	ISP: 63.20 ft	MGT: 4.49 ft	LPG %: 154.0 %	ASLE: 59.58 ft	J: 15.88 ft	MGU: 7.75 ft	J Luff: 58.07 ft	AMG: 33.30 ft	P: 56.70 ft	MGM: 13.26 ft	J Leech: 54.54 ft	ASF: 33.30 ft	E: 20.40 ft	MGL: 17.75 ft	Area: 710.3 ft ²	Area: 1759.8 ft ²	TPS: 18.50 ft	Area: 717.5 ft ²			
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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	45.8	44.9	43.8	41.0	38.7	36.5	36.2	36.3
Beat VMG	1,279.73	929.94	766.43	688.92	650.07	616.66	603.50	598.39
52°	813.72	598.21	500.01	471.14	457.37	443.60	435.94	432.07
60°	741.23	555.98	476.61	454.61	442.82	430.09	422.68	418.58
75°	671.44	516.36	457.52	435.72	424.58	409.32	399.05	392.17
90°	647.07	499.20	444.25	422.63	408.33	389.79	377.87	369.20
110°	646.09	496.63	439.77	411.02	394.66	371.13	355.16	344.23
120°	674.65	515.19	452.17	421.63	399.01	364.99	345.94	332.97
135°	879.24	622.03	499.62	457.07	429.81	388.77	351.49	312.22
150°	1,076.85	761.82	608.60	528.34	474.53	418.64	380.99	346.03
165°	1,201.07	849.71	678.81	589.29	525.80	448.84	405.47	371.87
Run VMG	1,243.44	879.68	702.75	610.08	544.35	458.77	411.60	376.56
Opt Run Angle	131.4	133.8	137.0	145.3	154.7	173.1	173.4	172.9

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

Performance Metrics

SA/D Dnwind:	47.830
SA/D Average:	37.87
SA/D Upwind:	27.900
D/Length:	168.9
Ave Perf Screen:	22.400
DnWind Perf	28.3
Screen:	

Standard Ratings

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.461	0.724	0.954	1.107	1,038.4	660.8	501.5	432.3
W50/L50	0.455	0.721	0.960	1.138	1,287.8	813.3	610.4	515.1
W60/L40	0.463	0.730	0.963	1.120	1,292.3	819.8	621.2	534.4
MOSTLY WW	0.497	0.766	0.971	1.069	1,212.1	786.5	620.4	563.8
MOSTLY LW	0.465	0.719	0.943	1.161	1,016.9	657.3	500.8	406.9

Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.954	553.1
IR#	0.959	557.2

ORR-Ez PHRF

TOD (Spin)
20.9

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

Standard PCS Ratings

	TOD (Spin)							
	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,039.3	748.5	610.3	538.3	496.8	454.1	431.2	415.2
W50/L50	1,287.9	923.1	748.6	658.5	604.5	543.6	512.5	492.2
W60/L40	1,292.4	928.6	755.3	666.8	615.3	559.5	531.9	514.6
MOSTLY WW	1,212.1	881.8	727.8	654.4	615.3	578.2	561.7	553.3
MOSTLY LW	1,017.0	738.9	608.9	542.6	496.8	437.0	404.5	381.3
MOSTLY REACH								

ORR-Ez PHRF Time Allowance 4 Winds

	TOD (Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	48.0	27.5	19.6	28.7
W50/L50	80.9	44.9	23.7	28.7
W60/L40	76.2	45.2	25.1	28.9
MOSTLY WW	45.0	35.8	20.7	22.4
MOSTLY LW	72.4	37.4	23.0	32.8

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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	45.8	44.9	43.8	41.0	38.7	36.5	36.2	36.3
Beat VMG	1,279.73	929.94	766.43	688.92	650.07	616.66	603.50	598.39
52°	813.72	598.21	500.01	471.14	457.37	443.60	435.94	432.07
60°	741.23	555.98	476.61	454.61	442.82	430.09	422.68	418.58
75°	671.44	516.36	457.52	435.72	424.58	411.55	403.06	397.26
90°	661.75	510.76	454.82	426.31	412.31	397.23	386.71	379.00
110°	736.66	554.69	477.89	446.32	423.99	389.61	371.41	361.15
120°	834.09	613.07	512.33	468.02	441.69	403.95	372.97	355.96
135°	1,145.29	798.31	627.31	534.84	480.47	427.16	391.28	359.65
150°	1,467.29	985.87	745.25	612.61	528.69	446.53	404.67	371.69
165°	1,563.11	1,054.64	800.62	650.03	556.63	455.01	407.51	371.87
Run VMG	1,592.92	1,073.79	814.42	660.44	564.64	460.14	412.06	376.56
Opt Run Angle	172.1	172.2	172.2	171.6	172.2	173.1	173.4	172.9

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

Performance Metrics

SA/D:	27.90
D/Length:	168.9
Perf Screen:	16.5

Standard Ratings

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.421	0.675	0.915	1.079	1,137.4	709.2	522.9	443.3
W50/L50	0.406	0.669	0.942	1.138	1,444.2	875.9	622.2	515.1
W60/L40	0.422	0.688	0.949	1.120	1,416.8	869.9	630.7	534.4
MOSTLY WW	0.484	0.753	0.967	1.067	1,244.7	800.2	623.1	564.6
MOSTLY LW	0.381	0.630	0.894	1.129	1,239.4	750.2	528.5	418.4

Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.901	585.5
IR#	0.935	572.8

ORR-Ez PHRF

TOD (Non-Spin)
36.5

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

Standard PCS Ratings

	TOD (Non-Spin)							
	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,143.0	813.1	653.7	568.1	518.0	466.8	441.8	426.3
W50/L50	1,456.0	1,018.2	803.0	685.0	615.6	544.6	512.7	492.1
W60/L40	1,426.2	1,004.7	798.8	688.1	624.2	560.3	532.0	514.5
MOSTLY WW	1,247.0	902.4	740.1	659.8	617.7	579.1	562.7	554.3
MOSTLY LW	1,253.6	875.1	688.8	586.3	524.0	453.3	415.6	390.5
MOSTLY REACH								

ORR-Ez PHRF Allowance 4 Winds

	TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	147.0	75.9	41.0	39.7
W50/L50	237.3	107.5	35.5	28.7
W60/L40	200.7	95.3	34.6	28.9
MOSTLY WW	77.6	49.5	23.4	23.2
MOSTLY LW	294.9	130.3	50.7	44.3