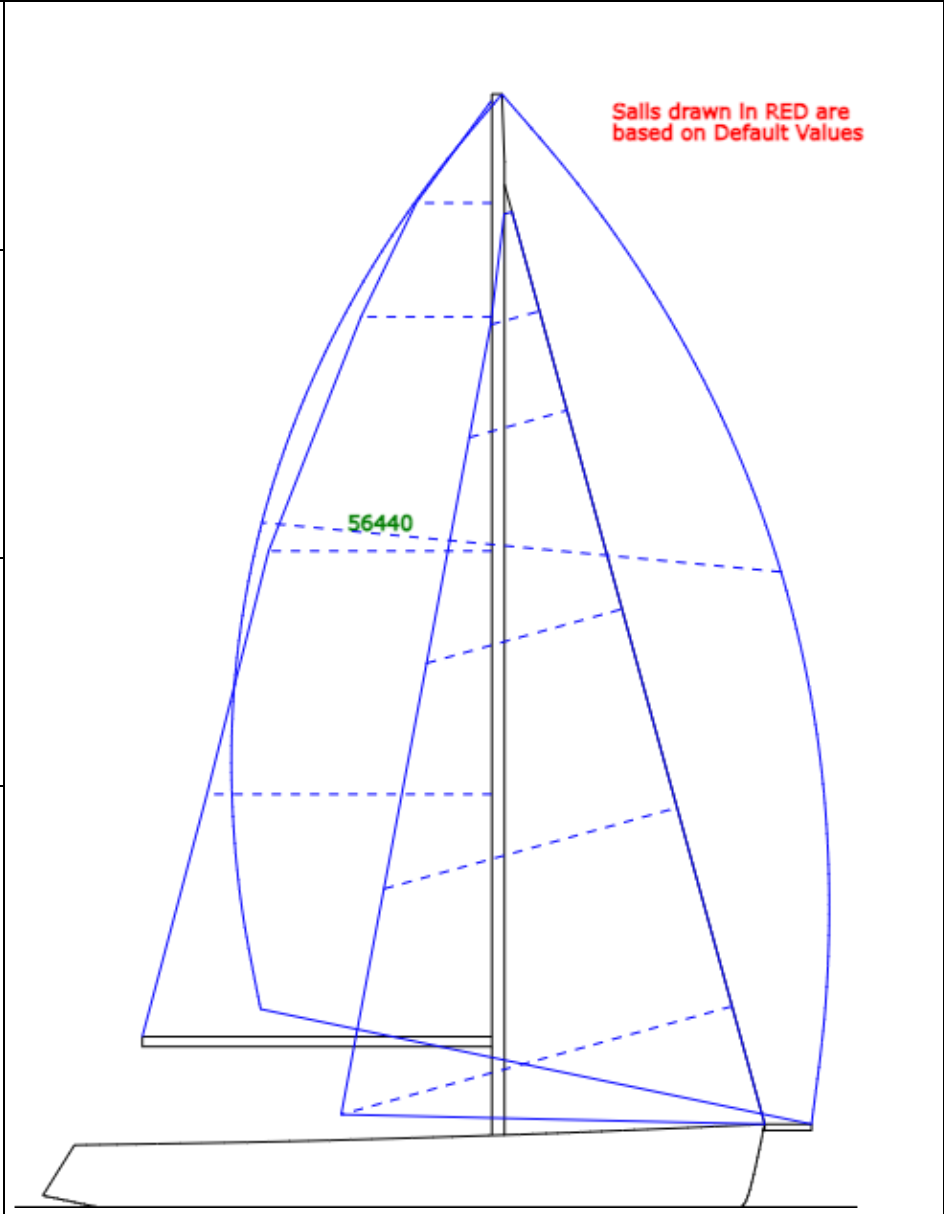


AEOLOS Beneteau 44.7 56440

Spinnaker	GPH: 0.959 / 552.5	IR#: 0.963 / 556.8	PHRF BM: 20.6
Non-Spin	GPH: 0.907 / 584.1	IR#: 0.935 / 573.2	PHRF BM: 37.0

Class:	Beneteau 44.7
Configuration:	
Sail Number:	56440
Year Built:	2004
Builder:	BENETEAU
Owner(s):	Price, Gregory
Certificate #:	EZ11836-1
Valid Year:	2024
Type:	Mid Seas Change
Issue Date:	2024-05-22
Exp.Date:	2024-12-31
Offsets_file:	FIRST447-DK_leg.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:	38.75 ft
Rated Length:	39.65 ft
Beam Max:	13.01 ft
Draft:	8.63 ft
Disp Empty:	21076 lbs
Disp Sailing:	23340 lbs
Crew:	1875 lbs
Water Ballast:	0 lbs
Wetted Area:	408.1 ft ²
LPS:	109.9 °
RM20:	1461.2 ft·lbs
Stab Index:	116 °



Spinnaker:	Asymmetrical tacked centerline on bow, sprit or prod
Genoa/Jib Leech:	Has Roach or Hollow
Large Roach Headsail:	No
Jib Furler:	No
Main Roller Furling:	No

Rig Dimensions	Mainsail Meas.	Jib/Genoa Meas.	Asymmetric Spin. Meas.
IG: 57.70 ft	HB: 0.07 ft	LP: 24.61 ft	ASLU: 67.85 ft
ISP: 63.20 ft	MGT: 4.59 ft	LPG %: 155.8 %	ASLE: 60.27 ft
J: 15.79 ft	MGU: 7.94 ft	J Luff: 57.48 ft	AMG: 31.50 ft
P: 56.77 ft	MGM: 13.55 ft	J Leech: 55.77 ft	ASF: 33.43 ft
E: 21.21 ft	MGL: 17.29 ft	JH: 0.00 ft	Area: 1702.1 ft ²
TPS: 18.63 ft	Area: 721.5 ft ²	JMGT: 3.08 ft	
		JMGU: 6.15 ft	
		JMGM: 12.30 ft	
		JMGL: 18.46 ft	
		Area: 708.8 ft ²	

AEOLOS Beneteau 44.7 56440

Spinnaker

Polar Time Allowances

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	45.9	44.8	43.4	40.8	38.8	37.0	36.6	36.7
Beat VMG	1,266.58	925.31	767.54	694.23	657.32	625.93	612.44	607.55
52°	804.42	595.69	502.44	474.97	461.91	448.25	440.66	437.05
60°	731.95	553.21	478.94	458.30	447.10	434.45	427.11	423.26
75°	666.79	514.26	457.47	439.06	428.40	413.50	403.34	396.68
90°	643.81	499.00	446.92	425.66	411.68	393.83	382.11	373.69
110°	646.02	496.68	439.92	413.48	397.39	374.57	359.59	348.96
120°	674.97	515.40	452.30	421.52	398.83	368.04	350.20	338.07
135°	872.55	619.77	500.22	457.47	430.00	388.42	350.30	318.31
150°	1,068.65	759.06	609.15	528.92	474.88	418.67	380.58	344.73
165°	1,191.93	846.62	679.42	589.94	526.10	448.71	405.06	370.70
Run VMG	1,233.98	876.49	703.39	610.75	544.65	458.11	410.84	375.37
Opt Run Angle	132.2	134.3	137.1	145.4	154.8	173.1	173.4	172.8

Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.959	552.5
IR#	0.963	556.8

Performance Metrics

SA/D Dnwind:	47.490
SA/D Average:	37.91
SA/D Upwind:	28.330
D/Length:	167.1
Ave Perf Screen:	22.700
DnWind Perf	28.4
Screen:	

PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,035.8	746.5	609.2	537.6	496.4	453.8	430.8	414.5
W50/L50	1,280.3	919.3	747.1	657.8	604.1	543.1	511.9	491.4
W60/L40	1,284.7	924.6	753.3	665.9	614.8	559.0	531.3	513.8
MOSTLY WW	1,349.0	968.3	786.6	691.7	638.6	589.1	568.9	559.8
MOSTLY LW	1,134.5	808.4	651.1	564.2	509.8	446.0	409.4	384.5
MOSTLY REACH	946.2	685.9	563.6	501.8	466.8	430.6	409.0	392.4

Non-Spinnaker

Polar Time Allowances

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	45.9	44.8	43.4	40.8	38.8	37.0	36.6	36.7
Beat VMG	1,266.58	925.31	767.54	694.23	657.32	625.93	612.44	607.55
52°	804.42	595.69	502.44	474.97	461.91	448.25	440.66	437.05
60°	731.95	553.21	478.94	458.30	447.10	434.45	427.11	423.26
75°	666.79	514.26	457.47	439.06	428.40	415.58	407.12	401.62
90°	658.83	509.00	453.85	427.35	415.64	400.96	390.54	383.15
110°	731.69	552.02	476.79	445.36	422.87	389.03	375.02	364.99
120°	830.60	610.60	510.36	467.03	440.76	402.66	372.00	359.67
135°	1,138.20	794.35	625.05	532.74	479.48	426.30	389.96	358.19
150°	1,461.51	982.56	743.19	611.18	527.26	445.85	403.79	370.12
165°	1,558.51	1,051.65	798.44	648.43	555.15	454.34	406.75	370.70
Run VMG	1,588.63	1,070.95	812.31	658.76	563.20	459.47	411.30	375.37
Opt Run Angle	172.1	172.2	172.3	172.3	172.2	173.1	173.4	172.8

Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.907	584.1
IR#	0.935	573.2

Performance Metrics

SA/D:	28.33
D/Length:	167.1
Perf Screen:	17.0

PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,138.3	810.2	651.7	566.7	517.1	466.1	441.2	425.6
W50/L50	1,450.2	1,014.4	800.3	683.1	614.3	544.0	512.1	491.3
W60/L40	1,419.9	1,000.7	796.0	686.2	623.0	559.7	531.5	513.8
MOSTLY WW	1,377.9	985.6	797.3	698.0	642.4	590.4	569.9	560.7
MOSTLY LW	1,329.8	924.7	724.7	611.9	541.8	463.0	421.1	395.1
MOSTLY REACH	1,040.1	745.7	605.0	531.1	488.3	444.7	422.3	407.4

AEOLOS Beneteau 44.7 56440

Spinnaker

Standard 5 Winds

	TOT (Spin)					TOD (Spin)				
	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	0.502	0.653	0.825	0.983	1.202	1,035.8	797.1	631.1	529.6	433.0
W50/L50	0.496	0.646	0.819	0.983	1.231	1,280.3	982.2	774.8	645.6	515.4
W60/L40	0.504	0.656	0.829	0.989	1.212	1,284.7	987.5	781.3	655.2	534.7
MOSTLY WW	0.509	0.664	0.843	1.006	1.200	1,349.0	1,034.6	815.5	682.7	572.6
MOSTLY LW	0.466	0.612	0.784	0.960	1.279	1,134.5	864.6	674.6	550.8	413.3
MOSTLY REACH	0.513	0.663	0.832	0.980	1.182	946.2	731.9	583.8	495.3	410.7

Standard Single Wind

	TOT (Spin) Single	TOD (Spin) Single
RANDOM LEG	0.954	545.7
W50/L50	0.956	663.9
W60/L40	0.960	674.8
MOSTLY WW	0.972	707.2
MOSTLY LW	0.936	564.8
MOSTLY REACH	0.953	509.6

Legacy 4 Winds

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.464	0.728	0.959	1.111	1,035.8	659.9	501.4	432.5
W50/L50	0.459	0.725	0.964	1.143	1,280.3	810.9	609.9	514.6
W60/L40	0.468	0.735	0.968	1.125	1,284.7	817.1	620.6	533.9
MOSTLY WW	0.466	0.737	0.975	1.101	1,349.0	853.7	645.7	571.7
MOSTLY LW	0.428	0.687	0.943	1.179	1,134.5	708.0	515.5	412.3
MOSTLY REACH	0.476	0.739	0.956	1.098	946.2	609.3	471.0	410.3

Non-Spinnaker

Standard 5 Winds

	TOT (Non-Spin)					TOD (Non-Spin)				
	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	0.457	0.600	0.770	0.935	1.171	1,138.3	866.7	676.2	556.8	444.3
W50/L50	0.438	0.583	0.762	0.948	1.231	1,450.2	1,088.3	832.6	669.2	515.8
W60/L40	0.456	0.604	0.783	0.961	1.211	1,420.0	1,072.2	827.6	674.1	535.0
MOSTLY WW	0.499	0.652	0.831	0.998	1.198	1,377.9	1,053.6	827.0	688.5	573.7
MOSTLY LW	0.398	0.532	0.702	0.888	1.240	1,329.8	993.1	753.8	595.2	426.4
MOSTLY REACH	0.467	0.609	0.774	0.929	1.143	1,040.0	796.9	627.2	522.7	424.8

Standard Single Wind

	TOT (Non-Spin) Single	TOD (Non-Spin) Single
RANDOM LEG	0.904	575.5
W50/L50	0.914	694.7
W60/L40	0.926	699.5
MOSTLY WW	0.962	713.9
MOSTLY LW	0.861	614.5
MOSTLY REACH	0.900	539.5

Legacy 4 Winds

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.422	0.677	0.919	1.084	1,138.3	709.7	523.1	443.5
W50/L50	0.406	0.670	0.945	1.142	1,450.2	878.1	622.7	514.9
W60/L40	0.423	0.690	0.952	1.125	1,420.0	870.9	630.9	534.1
MOSTLY WW	0.457	0.726	0.968	1.099	1,377.9	866.6	649.8	572.7
MOSTLY LW	0.366	0.610	0.885	1.143	1,329.8	796.5	549.5	425.1
MOSTLY REACH	0.433	0.686	0.913	1.062	1,040.0	656.9	493.5	424.2

AEOLOS Beneteau 44.7 56440

Spinnaker

PHRF Benchmark

20.6

Aligned Ratings are based on the Farr
 40 MH as Scratch Boat.

PHRF Single Wind

RANDOM LEG	25.3
W50/L50	29.2
W60/L40	27.0
MOSTLY WW	20.1
MOSTLY LW	36.0
MOSTLY REACH	24.1

PHRF 5 Winds

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	47.0	34.9	26.4	22.0	30.0
W50/L50	72.8	53.6	38.4	26.0	27.5
W60/L40	65.2	49.0	35.8	24.3	24.6
MOSTLY WW	42.4	32.6	24.9	18.7	18.3
MOSTLY LW	72.7	53.6	40.1	31.9	42.3
MOSTLY REACH	39.4	29.9	23.3	21.2	29.1

Non-Spinnaker

PHRF Benchmark

37.0

Aligned Ratings are based on the Farr
 40 MH as Scratch Boat.

PHRF Single Wind

RANDOM LEG	55.1
W50/L50	60.0
W60/L40	51.7
MOSTLY WW	26.8
MOSTLY LW	85.7
MOSTLY REACH	54.0

PHRF 5 Winds

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	149.5	104.5	71.5	49.2	41.3
W50/L50	242.7	159.7	96.2	49.6	27.9
W60/L40	200.5	133.7	82.1	43.2	24.9
MOSTLY WW	71.3	51.6	36.4	24.5	19.4
MOSTLY LW	268.0	182.1	119.3	76.3	55.4
MOSTLY REACH	133.2	94.9	66.7	48.6	43.2