

Sorcerer Beneteau First 36.7 7020

Spinnaker	GPH: 0.855 / 619.5	IR#: 0.871 / 615.9	PHRF BM: 79.7
Non-Spin	GPH: 0.822 / 644.1	IR#: 0.855 / 626.8	PHRF BM: 90.6

<p>Class: Beneteau First 36.7 Configuration: One Design Sail Number: 7020 Year Built: 2002 Builder: Owner(s): Kopaniasz, Robert</p>	
<p>Certificate #: EZ10760-OD-5 Valid Year: 2024 Type: OD Cert Issue Date: 2024-05-15 Exp. Date: 2024-12-31 Offsets_file: F196.OFF Cert Group: ORR-Ez SOCAL Comment:</p>	
<p>Rig Type: Sloop Forestay: Fractional Keel Type: Fin Prop Type: Folding Prop Install: Strut Drive Prop Blades: 2</p>	
<p>LOA: 35.00 ft LWL: 32.19 ft Rated Length: 31.99 ft Beam Max: 11.32 ft Draft: 7.28 ft Disp Empty: 12156 lbs Disp Sailing: 13871 lbs Crew: 1643 lbs Water Ballast: 0 lbs Wetted Area: 284.4 ft² LPS: 109.8 ° RM20: 800.3 ft-lbs Stab Index: 111 °</p>	

Spinnaker:	Symmetrical flown with spinnaker pole
Genoa/Jib Leech:	No Roach - Leech is straight
Large Roach Headsail:	No
Jib Furler:	No
Main Roller Furling:	No

Rig Dimensions	Mainsail Meas.	Jib/Genoa Meas.	Symmetric Spin. Meas.
IG: 46.26 ft	HB: 0.57 ft	LP: 20.21 ft	SL: 45.80 ft
ISP: 46.49 ft	MGT: 3.43 ft	LPG %: 154.0 %	SMW: 23.49 ft
J: 13.12 ft	MGU: 5.92 ft	J Luff: 47.08 ft	SF: 22.83 ft
P: 45.44 ft	MGM: 10.13 ft	J Leech: 0.00 ft	Area: 891.6 ft ²
E: 15.58 ft	MGL: 13.25 ft	Area: 475.9 ft ²	
SPL: 13.12 ft	Area: 434.4 ft ²		

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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	45.6	44.7	43.6	40.4	38.1	35.9	35.6	36.0
Beat VMG	1,424.28	1,027.28	839.20	750.16	709.56	674.95	664.02	661.97
52°	903.75	662.41	551.66	517.75	503.12	489.12	482.22	479.43
60°	821.09	616.22	528.63	500.16	487.39	474.37	467.54	464.34
75°	746.10	574.52	509.96	479.60	467.37	451.33	441.03	434.45
90°	747.20	568.48	496.47	465.92	450.30	430.23	418.12	409.72
110°	743.69	569.52	501.75	468.44	443.83	410.52	392.47	380.04
120°	794.40	600.04	519.07	484.63	459.29	416.69	379.98	363.29
135°	1,071.73	747.40	589.01	524.58	490.48	442.84	402.57	357.97
150°	1,312.60	915.38	719.69	596.87	529.89	467.69	426.24	388.03
165°	1,464.02	1,020.97	802.71	665.72	576.83	490.68	444.89	407.80
Run VMG	1,515.66	1,056.99	831.02	689.21	597.18	504.28	455.47	418.14
Opt Run Angle	130.3	133.3	137.1	149.3	161.5	173.0	173.7	173.0

Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.855	619.5
IR#	0.871	615.9

Performance Metrics

SA/D Dnwind:	36.750
SA/D Average:	30.99
SA/D Upwind:	25.230
D/Length:	189.1
Ave Perf Screen:	16.400
DnWind Perf Screen:	19.4

PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,185.6	848.8	687.3	601.4	552.3	502.5	477.5	460.8
W50/L50	1,499.4	1,061.2	848.1	730.8	662.5	596.1	565.2	545.3
W60/L40	1,490.4	1,058.7	849.8	737.4	673.8	613.3	586.2	569.9
MOSTLY WW	1,508.5	1,077.8	870.7	761.6	701.4	646.6	627.1	620.0
MOSTLY LW	1,333.2	939.9	748.0	639.9	572.7	495.9	453.4	427.3
MOSTLY REACH	1,083.8	781.1	637.5	563.2	521.2	478.6	455.3	437.5

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	45.6	44.7	43.6	40.4	38.1	35.9	35.6	36.0
Beat VMG	1,424.28	1,027.28	839.20	750.16	709.56	674.95	664.02	661.97
52°	903.75	662.41	551.66	517.75	503.12	489.12	482.22	479.43
60°	821.09	616.22	528.63	500.16	487.39	474.37	467.54	464.34
75°	746.10	574.52	509.96	479.60	467.37	453.51	445.38	440.11
90°	738.63	570.43	508.36	476.83	454.98	437.47	426.93	419.20
110°	836.74	627.44	537.67	501.90	476.63	438.08	409.45	398.93
120°	956.84	698.46	578.80	525.92	495.81	453.17	418.33	393.27
135°	1,299.22	897.40	698.23	592.86	533.37	474.89	435.55	400.08
150°	1,590.88	1,066.98	805.08	664.27	573.94	492.00	447.61	411.68
165°	1,686.81	1,136.29	861.22	701.18	601.35	500.22	450.80	412.68
Run VMG	1,714.94	1,154.40	874.30	711.04	609.36	505.81	455.98	418.14
Opt Run Angle	171.9	171.9	172.0	172.1	172.0	173.4	173.7	173.0

Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.822	644.1
IR#	0.855	626.8

Performance Metrics

SA/D:	25.23
D/Length:	189.1
Perf Screen:	13.3

PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,261.0	895.9	719.2	624.7	569.7	514.6	488.3	472.4
W50/L50	1,589.6	1,108.0	870.7	742.2	668.7	597.1	565.4	545.2
W60/L40	1,562.1	1,096.3	867.9	746.5	678.8	614.1	586.4	569.9
MOSTLY WW	1,523.2	1,086.5	876.2	765.2	703.6	647.8	628.0	620.9
MOSTLY LW	1,461.6	1,015.8	795.7	672.4	596.5	512.8	467.9	437.6
MOSTLY REACH	1,159.8	829.9	671.6	588.4	540.7	492.5	468.2	453.3

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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	0.439	0.574	0.731	0.879	1.084	1,185.6	907.2	712.5	592.1	480.3
W50/L50	0.423	0.559	0.721	0.884	1.116	1,499.4	1,136.3	880.1	717.7	568.8
W60/L40	0.435	0.572	0.734	0.892	1.098	1,490.4	1,133.0	882.0	726.1	589.8
MOSTLY WW	0.455	0.596	0.761	0.914	1.089	1,508.5	1,152.3	903.4	751.9	631.2
MOSTLY LW	0.397	0.525	0.682	0.848	1.152	1,333.2	1,007.0	775.9	623.7	458.9
MOSTLY REACH	0.448	0.582	0.735	0.874	1.062	1,083.8	834.1	660.6	555.5	457.1

Standard Single Wind

	TOT (Spin) Single	TOD (Spin) Single
RANDOM LEG	0.851	611.6
W50/L50	0.853	744.0
W60/L40	0.860	753.2
MOSTLY WW	0.880	780.9
MOSTLY LW	0.824	641.6
MOSTLY REACH	0.848	572.8

Legacy 4 Winds

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.406	0.644	0.861	1.003	1,185.6	746.6	558.3	479.6
W50/L50	0.392	0.636	0.876	1.036	1,499.4	925.3	671.3	567.9
W60/L40	0.403	0.648	0.881	1.020	1,490.4	926.2	682.1	588.9
MOSTLY WW	0.417	0.665	0.887	0.999	1,508.5	947.0	709.6	630.2
MOSTLY LW	0.365	0.595	0.838	1.063	1,333.2	816.9	579.9	457.5
MOSTLY REACH	0.416	0.652	0.856	0.986	1,083.8	690.7	526.4	456.7

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	0.413	0.543	0.697	0.848	1.058	1,261.0	958.7	746.6	613.9	491.8
W50/L50	0.399	0.534	0.700	0.871	1.115	1,589.6	1,189.5	907.0	728.6	569.2
W60/L40	0.415	0.551	0.717	0.881	1.098	1,562.1	1,175.4	903.6	734.9	590.1
MOSTLY WW	0.451	0.591	0.756	0.910	1.087	1,523.2	1,162.0	909.3	755.2	632.2
MOSTLY LW	0.362	0.485	0.639	0.808	1.118	1,461.6	1,091.1	828.0	654.8	472.8
MOSTLY REACH	0.419	0.547	0.697	0.838	1.030	1,159.8	887.1	696.6	579.3	471.3

Standard Single Wind

	TOT (Non-Spin) Single	TOD (Non-Spin) Single
RANDOM LEG	0.819	635.4
W50/L50	0.837	758.7
W60/L40	0.847	765.0
MOSTLY WW	0.876	784.5
MOSTLY LW	0.781	676.9
MOSTLY REACH	0.811	598.5

Legacy 4 Winds

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.381	0.613	0.834	0.979	1,261.0	783.9	576.6	490.9
W50/L50	0.370	0.614	0.867	1.035	1,589.6	957.3	678.1	568.3
W60/L40	0.384	0.631	0.873	1.019	1,562.1	951.7	687.6	589.2
MOSTLY WW	0.413	0.660	0.884	0.997	1,523.2	953.6	712.0	631.2
MOSTLY LW	0.333	0.556	0.803	1.031	1,461.6	875.0	605.0	471.6
MOSTLY REACH	0.388	0.617	0.824	0.957	1,159.8	729.9	546.6	470.5

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Spinnaker

PHRF Benchmark

79.7

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

PHRF Single Wind

RANDOM LEG	91.1
W50/L50	109.3
W60/L40	105.4
MOSTLY WW	93.8
MOSTLY LW	112.8
MOSTLY REACH	87.3

PHRF 5 Winds

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	196.7	145.0	107.8	84.4	77.2
W50/L50	291.9	207.7	143.7	98.1	80.9
W60/L40	270.9	194.5	136.5	95.2	79.7
MOSTLY WW	201.9	150.3	112.8	87.9	76.9
MOSTLY LW	271.4	196.0	141.4	104.8	87.9
MOSTLY REACH	177.0	132.1	100.1	81.4	75.5

Non-Spinnaker

PHRF Benchmark

90.6

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

PHRF Single Wind

RANDOM LEG	114.9
W50/L50	124.0
W60/L40	117.2
MOSTLY WW	97.4
MOSTLY LW	148.1
MOSTLY REACH	113.0

PHRF 5 Winds

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	272.1	196.5	141.9	106.2	88.7
W50/L50	382.1	260.9	170.6	109.0	81.3
W60/L40	342.6	236.9	158.1	104.0	80.0
MOSTLY WW	216.6	160.0	118.7	91.2	77.9
MOSTLY LW	399.8	280.1	193.5	135.9	101.8
MOSTLY REACH	253.0	185.1	136.1	105.2	89.7