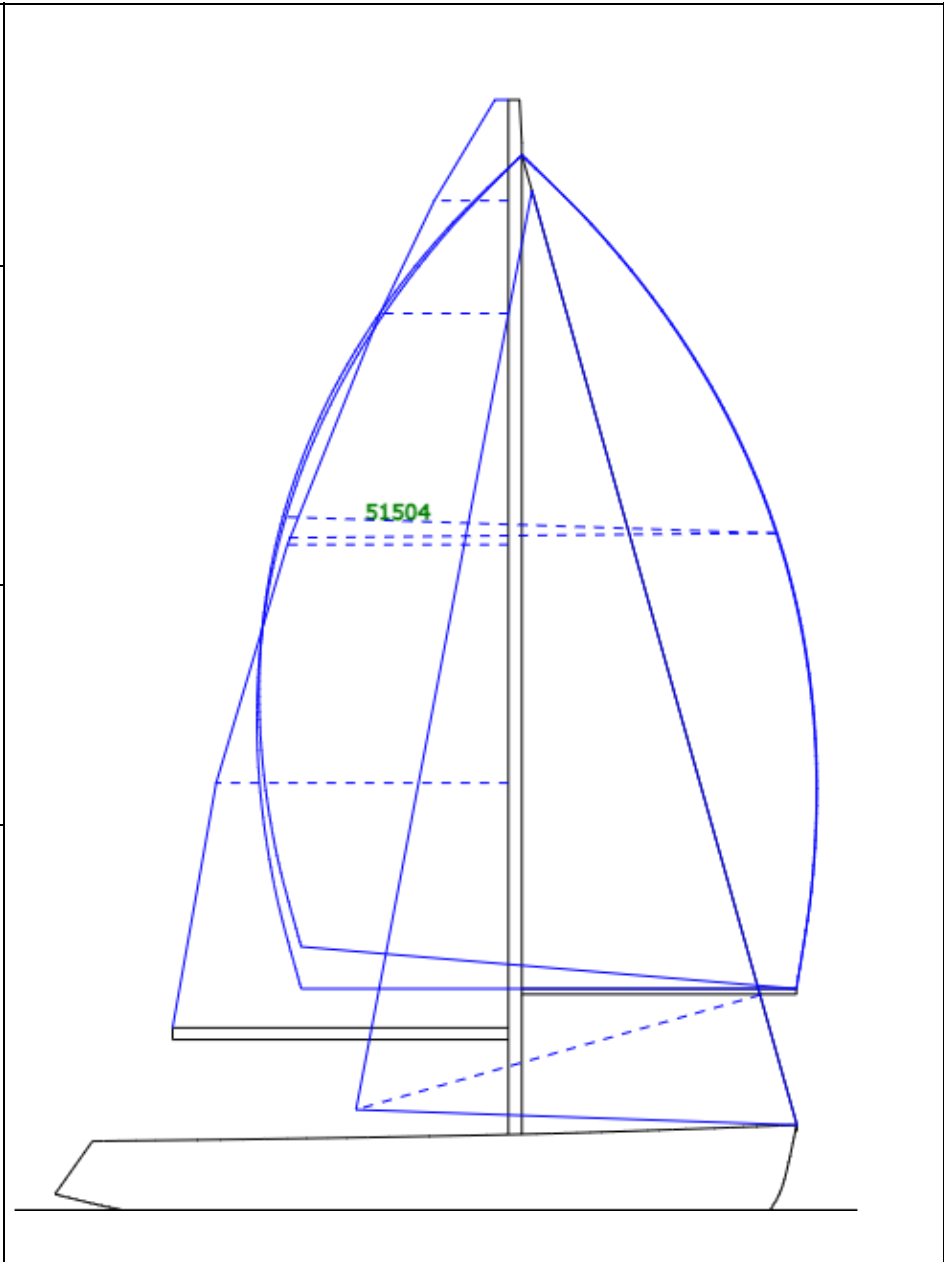


## Silhouette Beneteau First 40.7 51504

<b>Spinnaker</b>	<b>GPH: 0.901 / 588.2</b>	<b>IR#: 0.912 / 588.1</b>	<b>PHRF BM: 51.9</b>
<b>Non-Spin</b>	<b>GPH: 0.859 / 616.7</b>	<b>IR#: 0.889 / 603.3</b>	<b>PHRF BM: 67.1</b>

Class:	Beneteau First 40.7
Configuration:	
Sail Number:	51504
Year Built:	2000
Builder:	BENETEAU
Owner(s):	Gross, Warren
Certificate #:	EZ11805
Valid Year:	2024
Type:	Renew Cert
Issue Date:	2024-05-15
Exp. Date:	2024-12-31
Offsets_file:	FIRST407.OFF
Cert Group:	ORR-Ez SOCAL
Comment:	
Rig Type:	Sloop
Forestay:	Masthead
Keel Type:	Fin
Prop Type:	Folding
Prop Install:	Exposed
Prop Blades:	2
LOA:	39.30 ft
LWL:	34.90 ft
Rated Length:	35.10 ft
Beam Max:	12.36 ft
Draft:	7.90 ft
Disp Empty:	15260 lbs
Disp Sailing:	17207 lbs
Crew:	1400 lbs
Water Ballast:	0 lbs
Wetted Area:	332.2 ft <sup>2</sup>
LPS:	120.2 °
RM20:	1174.5 ft·lbs
Stab Index:	122 °



Spinnaker:	Both Symmetrical & Asymmetrical flown with spin 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.	Asymmetric Spin. Meas.	Symmetric Spin. Meas.
IG: 51.60 ft	HB: 0.71 ft	LP: 22.14 ft	ASLU: 55.50 ft	SL: 50.90 ft
ISP: 51.60 ft	MGT: 3.90 ft	LPG %: 152.6 %	ASLE: 52.70 ft	SMW: 26.20 ft
J: 14.50 ft	MGU: 6.76 ft	J Luff: 51.18 ft	AMG: 26.00 ft	SF: 26.10 ft
P: 48.90 ft	MGM: 11.65 ft	J Leech: 49.30 ft	ASF: 26.10 ft	Area: 1110.5 ft <sup>2</sup>
E: 17.70 ft	MGL: 15.40 ft	Area: 566.5 ft <sup>2</sup>	Area: 1173.1 ft <sup>2</sup>	
SPL: 14.47 ft	Area: 539.5 ft <sup>2</sup>			

## Silhouette Beneteau First 40.7 51504

### 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	45.1	44.2	41.1	38.8	36.6	36.1	36.3
Beat VMG	1,370.96	989.85	809.61	724.33	684.07	648.96	635.73	630.63
52°	869.08	635.66	528.03	495.39	480.74	466.39	458.58	454.61
60°	788.02	589.79	504.19	477.75	465.06	451.77	444.16	439.47
75°	711.57	547.16	484.74	457.47	445.41	427.74	416.53	408.65
90°	696.93	532.85	468.43	442.84	427.19	406.32	392.70	382.55
110°	695.69	534.19	472.32	440.05	416.02	385.95	366.57	352.18
120°	736.45	559.53	487.76	454.68	430.19	387.66	355.09	336.98
135°	1,001.33	696.10	546.32	492.66	461.39	415.98	375.36	327.70
150°	1,226.38	852.55	667.99	564.10	502.43	442.91	402.24	363.58
165°	1,367.84	950.90	745.04	629.18	550.45	467.02	422.05	385.21
Run VMG	1,416.10	984.44	771.32	651.37	569.87	480.82	433.15	396.35
Opt Run Angle	129.9	132.7	136.2	146.8	159.8	172.0	173.7	172.5

#### Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.901	588.2
IR#	0.912	588.1

#### Performance Metrics

SA/D Dnwind:	41.120
SA/D Average:	33.84
SA/D Upwind:	26.550
D/Length:	177.6
Ave Perf Screen:	19.100
DnWind Perf	23.2
Screen:	

#### PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,124.5	805.2	652.2	571.7	525.0	477.3	451.9	433.5
W50/L50	1,418.8	1,005.3	804.5	698.0	635.4	571.0	539.6	518.4
W60/L40	1,415.1	1,006.4	808.9	705.8	646.9	588.0	560.1	542.1
MOSTLY WW	1,447.5	1,034.6	836.3	732.0	673.9	620.2	599.1	589.5
MOSTLY LW	1,250.5	883.0	704.0	604.3	541.8	469.6	428.4	401.5
MOSTLY REACH	1,026.7	739.8	603.7	534.0	494.1	453.3	429.3	409.9

### 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	45.1	44.2	41.1	38.8	36.6	36.1	36.3
Beat VMG	1,370.96	989.85	809.61	724.33	684.07	648.96	635.73	630.63
52°	869.08	635.66	528.03	495.39	480.74	466.39	458.58	454.61
60°	788.02	589.79	504.19	477.75	465.06	451.77	444.16	439.93
75°	711.57	547.16	484.74	457.47	445.41	431.43	422.61	416.47
90°	701.13	541.35	482.30	451.65	432.22	415.68	404.51	396.08
110°	785.27	590.85	508.55	474.78	450.63	413.25	387.65	376.51
120°	895.48	655.76	545.53	497.79	469.42	428.56	394.56	370.87
135°	1,216.13	845.75	662.91	563.86	507.74	451.59	413.22	378.55
150°	1,524.71	1,024.59	774.61	638.97	551.50	470.04	426.50	391.05
165°	1,635.40	1,101.39	834.55	679.08	582.10	479.96	431.10	393.80
Run VMG	1,666.13	1,121.01	848.60	689.59	590.53	485.52	436.10	398.97
Opt Run Angle	171.9	172.0	172.1	172.1	172.1	173.3	173.6	173.0

#### Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.859	616.7
IR#	0.889	603.3

#### Performance Metrics

SA/D:	26.55
D/Length:	177.6
Perf Screen:	14.9

#### PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,207.7	858.1	688.9	598.2	545.1	491.2	464.8	448.1
W50/L50	1,537.8	1,072.1	842.6	718.1	646.0	573.7	541.1	519.7
W60/L40	1,509.9	1,059.9	839.4	721.9	655.5	590.1	561.3	543.1
MOSTLY WW	1,468.2	1,047.3	844.6	737.4	677.5	622.0	600.6	591.1
MOSTLY LW	1,404.9	976.3	764.6	645.6	572.0	489.9	445.5	415.7
MOSTLY REACH	1,105.5	791.3	640.7	561.4	515.7	469.0	444.8	429.2

*Silhouette Beneteau First 40.7 51504*

**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	0.463	0.605	0.769	0.925	1.146	1,124.5	860.6	676.3	562.5	454.2
W50/L50	0.447	0.590	0.759	0.926	1.169	1,418.8	1,076.2	835.9	685.3	543.0
W60/L40	0.458	0.602	0.771	0.932	1.150	1,415.1	1,076.8	840.3	694.7	563.4
MOSTLY WW	0.475	0.621	0.792	0.951	1.140	1,447.5	1,106.1	867.6	722.3	602.9
MOSTLY LW	0.423	0.559	0.724	0.898	1.221	1,250.5	945.8	730.4	588.9	433.2
MOSTLY REACH	0.473	0.614	0.776	0.922	1.127	1,026.7	790.1	625.8	526.4	430.8

**Standard Single Wind**

	TOT (Spin) Single	TOD (Spin) Single
RANDOM LEG	0.896	580.5
W50/L50	0.895	709.0
W60/L40	0.901	719.3
MOSTLY WW	0.917	749.4
MOSTLY LW	0.874	605.2
MOSTLY REACH	0.895	542.4

**Legacy 4 Winds**

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.427	0.678	0.906	1.060	1,124.5	708.5	530.7	453.6
W50/L50	0.415	0.670	0.915	1.085	1,418.8	878.3	643.0	542.2
W60/L40	0.424	0.681	0.918	1.068	1,415.1	881.9	654.3	562.5
MOSTLY WW	0.435	0.692	0.923	1.045	1,447.5	909.4	681.7	602.0
MOSTLY LW	0.389	0.632	0.886	1.125	1,250.5	768.6	548.4	432.0
MOSTLY REACH	0.439	0.689	0.903	1.047	1,026.7	654.3	499.0	430.4

**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	0.431	0.567	0.728	0.886	1.112	1,207.7	918.2	715.0	587.6	468.0
W50/L50	0.413	0.551	0.723	0.901	1.165	1,537.9	1,150.9	877.6	704.1	544.8
W60/L40	0.429	0.570	0.741	0.913	1.147	1,509.9	1,136.4	873.7	709.9	564.8
MOSTLY WW	0.468	0.613	0.784	0.945	1.136	1,468.2	1,120.0	876.4	727.3	604.6
MOSTLY LW	0.376	0.504	0.665	0.842	1.174	1,404.9	1,048.6	795.5	628.3	450.4
MOSTLY REACH	0.439	0.574	0.731	0.879	1.085	1,105.5	845.9	664.5	552.5	447.6

**Standard Single Wind**

	TOT (Non-Spin) Single	TOD (Non-Spin) Single
RANDOM LEG	0.856	607.7
W50/L50	0.867	732.3
W60/L40	0.878	738.0
MOSTLY WW	0.910	754.9
MOSTLY LW	0.815	649.0
MOSTLY REACH	0.851	570.5

**Legacy 4 Winds**

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.398	0.640	0.871	1.029	1,207.7	750.8	551.7	467.2
W50/L50	0.382	0.635	0.898	1.081	1,537.9	926.2	655.0	543.9
W60/L40	0.398	0.653	0.905	1.065	1,509.9	920.3	663.9	563.9
MOSTLY WW	0.429	0.685	0.918	1.043	1,468.2	919.1	685.5	603.6
MOSTLY LW	0.346	0.578	0.838	1.082	1,404.9	840.7	580.2	449.2
MOSTLY REACH	0.408	0.647	0.864	1.008	1,105.5	696.2	521.3	446.9

*Silhouette Beneteau First 40.7 51504*

**Spinnaker**

**PHRF Benchmark**

51.9

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

**PHRF Single Wind**

RANDOM LEG	60.1
W50/L50	74.3
W60/L40	71.5
MOSTLY WW	62.3
MOSTLY LW	76.4
MOSTLY REACH	56.9

**PHRF 5 Winds**

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	135.7	98.4	71.6	54.9	51.2
W50/L50	211.3	147.6	99.5	65.7	55.1
W60/L40	195.6	138.3	94.8	63.8	53.3
MOSTLY WW	140.9	104.1	77.0	58.3	48.6
MOSTLY LW	188.7	134.8	95.9	70.0	62.2
MOSTLY REACH	119.9	88.1	65.3	52.3	49.2

**Non-Spinnaker**

**PHRF Benchmark**

67.1

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

**PHRF Single Wind**

RANDOM LEG	87.3
W50/L50	97.6
W60/L40	90.2
MOSTLY WW	67.8
MOSTLY LW	120.2
MOSTLY REACH	85.0

**PHRF 5 Winds**

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	218.9	156.0	110.3	80.0	65.0
W50/L50	330.4	222.3	141.2	84.5	56.9
W60/L40	290.4	197.9	128.2	79.0	54.7
MOSTLY WW	161.6	118.0	85.8	63.3	50.3
MOSTLY LW	343.1	237.6	161.0	109.4	79.4
MOSTLY REACH	198.7	143.9	104.0	78.4	66.0