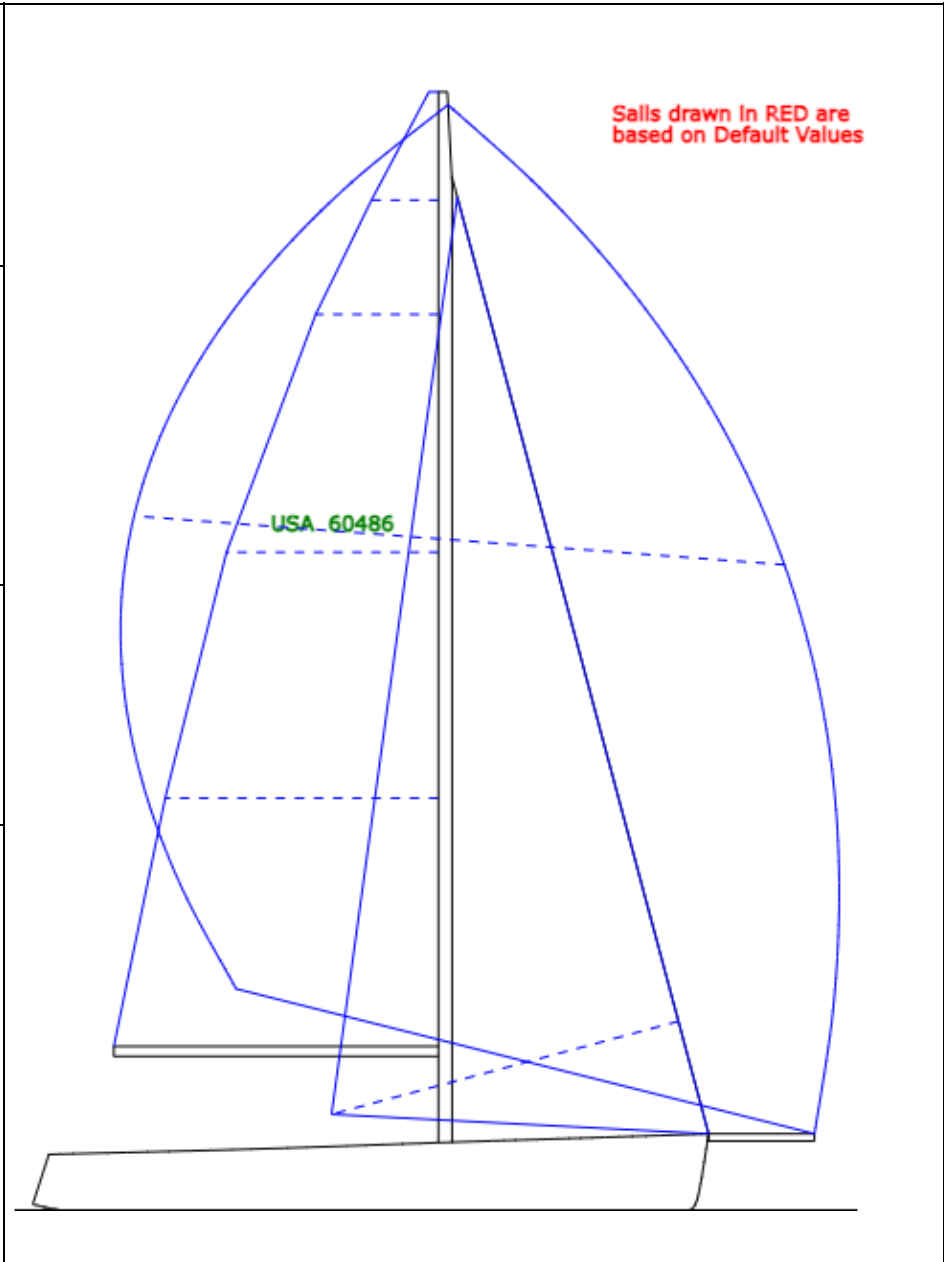


Precepts li BENETEAU 40 USA 60486

Spinnaker	GPH: 0.958 / 553.2	IR#: 0.963 / 556.9	PHRF BM: 20.7
Non-Spin	GPH: 0.892 / 593.7	IR#: 0.926 / 579.3	PHRF BM: 43.1

Class:	BENETEAU 40
Configuration:	First 40
Sail Number:	USA 60486
Year Built:	2012
Builder:	BENETEAU
Owner(s):	Belk, Drew
Certificate #:	EZ11906-1
Valid Year:	2024
Type:	Mid Seas Change
Issue Date:	2024-03-28
Exp. Date:	2024-12-31
Offsets_file:	F240.OFF
Cert Group:	ORR-Ez SOCAL
Comment:	
Rig Type:	Sloop
Forestay:	Fractional
Keel Type:	Fin with Bulb
Prop Type:	Folding
Prop Install:	Strut Drive
Prop Blades:	2
LOA:	40.16 ft
LWL:	35.00 ft
Rated Length:	37.90 ft
Beam Max:	12.79 ft
Draft:	8.20 ft
Disp Empty:	18232 lbs
Disp Sailing:	20490 lbs
Crew:	1803 lbs
Water Ballast:	0 lbs
Wetted Area:	381.2 ft ²
LPS:	121.2 °
RM20:	1384.7 ft-lbs
Stab Index:	125 °



Spinnaker:	Asymmetrical tacked centerline on bow, sprit or prod
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.
IG: 56.82 ft	HB: 0.56 ft	LP: 21.13 ft	ASLU: 69.86 ft
ISP: 61.02 ft	MGT: 3.94 ft	LPG %: 140.0 %	ASLE: 60.02 ft
J: 15.09 ft	MGU: 7.22 ft	J Luff: 57.04 ft	AMG: 38.26 ft
P: 56.14 ft	MGM: 12.47 ft	J Leech: 54.46 ft	ASF: 34.02 ft
E: 19.09 ft	MGL: 16.08 ft	Area: 602.6 ft ²	Area: 2024.6 ft ²
TPS: 21.32 ft	Area: 652.6 ft ²		

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	45.0	44.2	43.1	40.1	37.8	35.6	35.3	35.5
Beat VMG	1,295.38	937.79	769.44	691.07	652.94	619.40	605.76	599.75
52°	826.77	607.20	506.91	477.39	463.48	448.79	440.20	435.38
60°	754.04	565.74	485.16	461.02	448.92	435.17	426.73	421.71
75°	687.23	528.04	467.31	441.84	430.28	413.04	402.65	395.90
90°	637.82	497.37	449.25	427.18	412.24	392.52	380.14	371.56
110°	638.43	493.22	439.75	415.02	397.85	372.78	355.69	344.46
120°	658.24	507.24	450.69	419.78	396.01	366.40	345.74	332.12
135°	842.66	601.13	492.01	455.02	428.49	384.86	340.51	310.30
150°	1,032.04	736.22	593.76	520.88	472.79	418.48	378.19	337.24
165°	1,151.09	821.15	662.25	580.97	522.50	450.10	406.18	370.03
Run VMG	1,191.70	850.12	685.61	601.46	540.93	465.06	417.09	380.05
Opt Run Angle	129.9	133.4	138.5	146.6	156.0	173.1	173.3	172.6

Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.958	553.2
IR#	0.963	556.9

Performance Metrics

SA/D Dnwind:	57.220
SA/D Average:	42.03
SA/D Upwind:	26.830
D/Length:	168.0
Ave Perf Screen:	25.000
DnWind Perf Screen:	34.1

PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,032.5	745.2	609.3	538.7	498.1	455.8	432.2	416.1
W50/L50	1,270.0	912.4	741.8	655.3	604.4	547.9	516.4	494.6
W60/L40	1,280.9	921.5	750.5	664.8	615.8	563.5	535.4	516.8
MOSTLY WW	1,360.0	975.4	791.5	695.6	642.2	592.4	571.9	561.9
MOSTLY LW	1,112.0	795.0	642.9	560.0	508.5	448.7	412.8	387.7
MOSTLY REACH	946.2	686.8	565.2	504.0	469.2	432.5	410.5	395.9

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	45.0	44.2	43.1	40.1	37.8	35.6	35.3	35.5
Beat VMG	1,295.38	937.79	769.44	691.07	652.94	619.40	605.76	599.75
52°	826.77	607.20	506.91	477.39	463.48	448.79	440.20	435.38
60°	754.04	565.74	485.16	461.02	448.92	435.17	426.73	421.71
75°	687.23	528.04	467.31	441.84	430.28	416.09	406.36	399.77
90°	680.02	524.21	466.00	435.56	417.59	401.13	389.33	380.59
110°	761.71	572.26	491.57	458.22	434.54	397.18	372.98	361.41
120°	864.18	633.90	528.43	480.92	453.12	413.04	379.09	355.93
135°	1,184.80	822.99	644.25	548.60	492.33	436.86	399.01	364.62
150°	1,499.38	1,006.09	759.51	624.65	539.27	456.30	413.02	378.19
165°	1,570.41	1,060.35	805.57	654.66	560.83	461.43	412.97	375.30
Run VMG	1,598.86	1,078.62	818.74	664.40	568.46	466.44	417.56	380.05
Opt Run Angle	172.2	172.2	172.3	172.3	172.2	173.1	173.3	172.6

Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.892	593.7
IR#	0.926	579.3

Performance Metrics

SA/D:	26.83
D/Length:	168.0
Perf Screen:	16.0

PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,161.9	825.9	663.3	576.0	524.9	472.3	445.9	428.9
W50/L50	1,466.6	1,024.5	806.9	688.2	619.1	549.1	516.6	494.5
W60/L40	1,437.6	1,011.2	802.7	691.2	627.6	564.4	535.6	516.7
MOSTLY WW	1,396.4	997.2	805.2	703.9	647.1	594.1	572.9	562.7
MOSTLY LW	1,350.9	939.3	736.1	621.5	550.4	470.5	426.7	397.0
MOSTLY REACH	1,065.7	762.9	617.8	541.4	497.0	451.4	427.2	411.2

Precepts II BENETEAU 40 USA 60486

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	0.504	0.654	0.825	0.981	1.197	1,032.5	795.7	631.0	530.7	434.7
W50/L50	0.500	0.651	0.824	0.985	1.222	1,270.0	974.7	769.8	644.4	519.6
W60/L40	0.506	0.658	0.832	0.989	1.203	1,280.9	984.3	778.9	655.2	538.6
MOSTLY WW	0.505	0.659	0.837	1.001	1.194	1,360.0	1,042.3	820.8	686.6	575.4
MOSTLY LW	0.476	0.622	0.794	0.966	1.270	1,112.0	850.0	666.0	547.5	416.4
MOSTLY REACH	0.513	0.663	0.829	0.976	1.176	946.2	732.7	585.3	497.3	413.0

Standard Single Wind

	TOT (Spin) Single	TOD (Spin) Single
RANDOM LEG	0.952	546.5
W50/L50	0.957	663.0
W60/L40	0.959	675.3
MOSTLY WW	0.966	711.5
MOSTLY LW	0.942	561.3
MOSTLY REACH	0.949	511.4

Legacy 4 Winds

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.466	0.729	0.956	1.108	1,032.5	659.6	502.9	434.1
W50/L50	0.463	0.730	0.964	1.134	1,270.0	805.5	610.0	518.8
W60/L40	0.469	0.737	0.966	1.117	1,280.9	814.6	621.5	537.8
MOSTLY WW	0.463	0.732	0.969	1.095	1,360.0	859.5	649.3	574.5
MOSTLY LW	0.437	0.696	0.946	1.170	1,112.0	698.2	513.9	415.5
MOSTLY REACH	0.476	0.738	0.952	1.092	946.2	610.7	473.3	412.4

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	0.448	0.589	0.756	0.920	1.159	1,161.9	883.7	688.4	565.7	449.0
W50/L50	0.433	0.577	0.756	0.941	1.220	1,466.6	1,099.3	839.9	674.6	520.1
W60/L40	0.451	0.598	0.776	0.954	1.202	1,437.6	1,083.8	835.0	679.3	538.9
MOSTLY WW	0.492	0.644	0.822	0.990	1.192	1,396.4	1,066.2	835.4	694.2	576.5
MOSTLY LW	0.391	0.524	0.691	0.875	1.226	1,350.9	1,008.8	765.7	604.6	431.4
MOSTLY REACH	0.456	0.595	0.758	0.912	1.129	1,065.7	815.5	640.7	532.6	429.9

Standard Single Wind

	TOT (Non-Spin) Single	TOD (Non-Spin) Single
RANDOM LEG	0.890	584.7
W50/L50	0.906	700.7
W60/L40	0.918	705.4
MOSTLY WW	0.954	720.1
MOSTLY LW	0.847	624.1
MOSTLY REACH	0.883	549.6

Legacy 4 Winds

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.414	0.665	0.905	1.073	1,161.9	722.8	531.1	448.2
W50/L50	0.401	0.664	0.937	1.133	1,466.6	886.0	627.6	519.2
W60/L40	0.418	0.683	0.945	1.116	1,437.6	879.1	635.6	538.1
MOSTLY WW	0.451	0.718	0.961	1.093	1,396.4	875.9	654.7	575.6
MOSTLY LW	0.360	0.601	0.871	1.130	1,350.9	809.1	558.2	430.2
MOSTLY REACH	0.423	0.671	0.897	1.049	1,065.7	671.2	502.4	429.3

Precepts li **BENETEAU 40 USA 60486**

Spinnaker

PHRF Benchmark

20.7

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

PHRF Single Wind

RANDOM LEG	26.0
W50/L50	28.3
W60/L40	27.5
MOSTLY WW	24.4
MOSTLY LW	32.5
MOSTLY REACH	25.9

PHRF 5 Winds

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	43.6	33.5	26.3	23.0	31.6
W50/L50	62.5	46.1	33.4	24.8	31.7
W60/L40	61.4	45.8	33.4	24.3	28.5
MOSTLY WW	53.4	40.3	30.2	22.6	21.1
MOSTLY LW	50.2	39.0	31.5	28.6	45.4
MOSTLY REACH	39.4	30.7	24.8	23.2	31.4

Non-Spinnaker

PHRF Benchmark

43.1

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

PHRF Single Wind

RANDOM LEG	64.2
W50/L50	66.0
W60/L40	57.6
MOSTLY WW	33.0
MOSTLY LW	95.3
MOSTLY REACH	64.1

PHRF 5 Winds

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	173.0	121.5	83.7	58.0	45.9
W50/L50	259.1	170.7	103.5	55.0	32.2
W60/L40	218.1	145.3	89.5	48.4	28.8
MOSTLY WW	89.8	64.2	44.8	30.2	22.2
MOSTLY LW	289.1	197.8	131.2	85.7	60.4
MOSTLY REACH	158.9	113.5	80.2	58.5	48.3