

Class: Jeanneau Sun Odyssey 440 Configuration: Sail Number: 7216 Year Built: 2022 Builder: JEANNEAU Owner(s): Milligan, Brad			
Certificate #: EZ11835 Valid Year: 2023 Type: New Cert Issue Date: 2023-09-29 Exp. Date: 2023-12-31 Offsets_file: so440_DV.off Cert Group: ORR-Ez SOCAL Comment:			
Rig Type: Sloop Forestay: Fractional Keel Type: Fixed Prop Type: Feathering Prop Install: Exposed Prop Blades: 4			
LOA: 42.00 ft LWL: 39.37 ft Rated Length: 40.31 ft Beam Max: 14.16 ft Draft: 7.17 ft Disp Empty: 20723 lbs Disp Sailing: 23237 lbs Crew: 1500 lbs Water Ballast: 0 lbs Wetted Area: 429.2 ft ² LPS: 113.6 ° RM20: 2230.5 ft-lbs Stab Index: 116 °			
Spinnaker: Asymmetrical tacked centerline on bow, sprit or prod Code Zero: Yes Genoa/Jib Leech: No Roach - Leech is straight Large Roach Headsail: No Jib Furler: Yes Above Deck Main Roller Furling: No			
Rig Dimensions IG: 50.19 ft ISP: 53.15 ft J: 16.96 ft P: 50.20 ft E: 16.57 ft TPS: 19.52 ft	Mainsail Meas. HB: 0.66 ft MGT: 3.65 ft MGU: 6.30 ft MGM: 10.77 ft MGL: 14.41 ft Area: 514.0 ft ²	Jib/Genoa Meas. LP: 22.90 ft LPG %: 135.0 % J Luff: 49.87 ft J Leech: 47.24 ft Area: 571.0 ft ²	Asymmetric Spin. Meas. ASLU: 55.11 ft ASLE: 45.00 ft AMG: 20.98 ft ASF: 35.10 ft Area: 993.0 ft ²

Cheyenne Jeanneau Sun Odyssey 440 7216

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	48.2	46.7	45.0	45.1	43.0	39.7	38.4	38.1
Beat VMG	1,651.45	1,158.23	916.31	789.13	716.05	650.55	622.51	612.46
52°	1,013.74	720.75	579.06	504.61	472.68	445.78	433.60	428.30
60°	901.69	648.23	527.50	474.48	448.25	426.09	415.78	410.09
75°	807.07	587.29	484.83	441.92	420.55	398.80	385.95	377.68
90°	757.80	557.45	466.32	428.95	404.64	379.19	362.22	350.52
110°	782.51	572.47	475.67	438.09	413.36	375.81	340.91	318.67
120°	841.30	609.02	499.67	456.13	429.86	391.44	356.45	317.93
135°	968.42	704.97	602.04	515.61	468.30	418.59	383.78	350.26
150°	1,186.07	863.41	713.12	614.33	532.47	448.71	407.46	375.72
165°	1,322.88	963.01	795.38	684.51	593.74	481.66	429.66	395.58
Run VMG	1,369.55	996.98	823.44	708.66	614.68	498.54	442.05	406.12
Opt Run Angle	129.3	134.9	144.9	152.5	151.2	166.5	172.6	173.7

Performance Metrics

SA/D Dnwind:	29.620
SA/D Average:	25.56
SA/D Upwind:	21.500
D/Length:	158.4
Ave Perf Screen:	16.100
DnWind Perf	18.7
Screen:	

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

Standard Ratings

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.394	0.637	0.883	1.080	1,214.7	750.6	542.2	443.1
W50/L50	0.380	0.611	0.858	1.080	1,544.5	959.0	683.2	542.7
W60/L40	0.381	0.616	0.862	1.067	1,571.0	971.6	693.9	560.9
MOSTLY WW	0.393	0.639	0.881	1.034	1,532.9	942.7	684.0	582.7
MOSTLY LW	0.398	0.623	0.848	1.103	1,186.0	758.7	557.1	428.5

Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.862	611.9
IR#	0.865	618.2

ORR-Ez PHRF

TOD (Spin)
81.9

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	1,216.4	861.5	689.1	594.0	536.1	473.3	441.0	421.4
W50/L50	1,544.6	1,098.3	882.5	757.4	674.0	581.2	537.8	514.5
W60/L40	1,571.2	1,114.2	892.4	766.2	684.5	596.5	556.0	535.3
MOSTLY WW	1,533.2	1,082.0	862.0	745.1	674.8	608.2	578.4	565.6
MOSTLY LW	1,186.1	857.9	703.2	615.7	550.9	470.9	425.9	391.5
MOSTLY REACH								

ORR-Ez PHRF Time Allowance 4 Winds

	TOD (Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	224.3	117.3	60.3	39.5
W50/L50	337.6	190.6	96.5	56.3
W60/L40	354.9	197.0	97.8	55.4
MOSTLY WW	365.8	192.0	84.3	41.3
MOSTLY LW	241.5	138.8	79.3	54.4

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True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	48.2	46.7	45.0	45.1	43.0	39.7	38.4	38.1
Beat VMG	1,651.45	1,158.23	916.31	789.13	716.05	650.55	622.51	612.46
52°	1,013.74	720.75	579.06	504.61	472.68	445.78	433.60	428.30
60°	901.69	648.23	527.50	474.48	448.25	426.09	415.78	411.00
75°	804.31	587.29	486.84	448.21	424.27	401.52	391.50	386.19
90°	794.93	582.13	484.27	446.92	423.04	390.57	374.93	366.71
110°	892.70	647.47	532.42	475.40	446.99	408.77	379.47	352.03
120°	1,043.72	740.95	594.27	511.20	469.17	424.04	392.46	363.75
135°	1,399.14	949.79	725.59	603.28	524.83	448.61	409.24	378.66
150°	1,663.43	1,106.16	827.55	674.20	578.29	469.01	421.71	388.89
165°	1,709.73	1,150.01	870.28	704.64	598.82	476.58	423.38	387.77
Run VMG	1,733.44	1,165.58	881.77	713.55	606.03	481.89	428.10	392.49
Opt Run Angle	171.7	171.8	171.9	171.9	172.0	172.6	173.3	173.2

Performance Metrics

SA/D:	21.50
D/Length:	158.4
Perf Screen:	13.6

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

Standard Ratings

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.360	0.597	0.852	1.055	1,329.7	801.4	561.8	453.6
W50/L50	0.343	0.583	0.862	1.095	1,707.3	1,004.9	680.0	535.3
W60/L40	0.352	0.593	0.866	1.078	1,701.3	1,008.4	691.3	554.9
MOSTLY WW	0.383	0.631	0.880	1.034	1,571.8	954.4	685.0	582.5
MOSTLY LW	0.328	0.558	0.829	1.083	1,440.4	847.2	570.0	436.2

Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.821	642.5
IR#	0.858	624.2

ORR-Ez PHRF

TOD (Non-Spin)	87.9
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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	1,333.4	930.1	731.5	621.5	554.8	484.5	451.0	431.7
W50/L50	1,713.2	1,177.8	911.9	761.8	669.9	573.1	530.6	507.5
W60/L40	1,706.0	1,177.8	916.0	769.7	681.3	590.0	550.3	529.7
MOSTLY WW	1,573.1	1,101.4	869.7	747.3	675.7	607.7	578.3	565.9
MOSTLY LW	1,447.4	995.0	770.2	640.2	562.3	475.6	433.3	403.0
MOSTLY REACH								

ORR-Ez PHRF Allowance 4 Winds

	TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	339.3	168.1	79.9	50.0
W50/L50	500.4	236.5	93.3	48.9
W60/L40	485.2	233.8	95.2	49.4
MOSTLY WW	404.7	203.7	85.3	41.1
MOSTLY LW	495.9	227.3	92.2	62.1