

## Pelican Olson 911SE 7431

Class: Olson 911SE Configuration: Sail Number: 7431 Year Built: 1990 Builder: ERICSON Owner(s): Greaney, Dale				
Certificate #: EZ11609 Valid Year: 2023 Type: Mid Seas Change Issue Date: 2023-10-25 Exp. Date: 2023-12-31 Offsets_file: US19067.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: 29.87 ft LWL: 25.00 ft Rated Length: 27.69 ft Beam Max: 10.29 ft Draft: 5.67 ft Disp Empty: 8519 lbs Disp Sailing: 9965 lbs Crew: 970 lbs Water Ballast: 0 lbs Wetted Area: 229.7 ft <sup>2</sup> LPS: 119.9 ° RM20: 604.6 ft-lbs Stab Index: 119 °				
Spinnaker: Both Symmetrical & Asymmetrical flown with spin pole Code Zero: No Genoa/Jib Leech: No Roach - Leech is straight Large Roach Headsail: No Jib Furler: No Main Roller Furling: No				
<b>Rig Dimensions</b> IG: 41.90 ft ISP: 42.00 ft J: 12.30 ft P: 36.00 ft E: 11.90 ft SPL: 12.30 ft	<b>Mainsail Meas.</b> HB: 0.43 ft MGT: 2.46 ft MGU: 4.46 ft MGM: 7.68 ft MGL: 9.97 ft Area: 259.1 ft <sup>2</sup>	<b>Jib/Genoa Meas.</b> LP: 19.06 ft LPG %: 154.9 % J Luff: 42.00 ft J Leech: 39.75 ft Area: 400.2 ft <sup>2</sup>	<b>Asymmetric Spin. Meas.</b> ASLU: 43.35 ft ASLE: 39.28 ft AMG: 20.47 ft ASF: 21.98 ft Area: 715.2 ft <sup>2</sup>	<b>Symmetric Spin. Meas.</b> SL: 41.57 ft SMW: 22.05 ft SF: 21.65 ft Area: 761.1 ft <sup>2</sup>

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#### 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	46.4	45.3	43.9	41.4	39.0	36.5	35.6	35.9
Beat VMG	1,585.48	1,146.72	939.80	834.49	783.56	736.00	718.05	715.61
52°	999.64	732.94	610.67	566.07	546.81	527.76	519.90	517.02
60°	908.65	679.85	580.92	544.09	527.42	510.48	503.09	497.55
75°	820.76	629.77	556.30	520.47	503.23	482.06	469.92	462.15
90°	795.88	609.58	537.16	501.85	483.02	459.43	444.21	434.38
110°	802.09	615.61	543.98	509.27	483.66	442.59	417.87	402.38
120°	861.39	650.92	563.41	526.75	499.31	454.79	415.31	386.62
135°	1,157.87	801.94	636.10	566.82	530.43	479.81	438.51	395.97
150°	1,418.10	981.05	764.63	634.66	568.60	504.52	461.33	422.63
165°	1,581.68	1,094.22	852.83	707.13	612.94	527.29	480.08	442.11
Run VMG	1,637.48	1,132.82	882.92	732.08	634.56	541.44	491.31	452.82
Opt Run Angle	130.4	137.0	148.3	152.4	164.1	173.2	173.4	172.8

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

#### Performance Metrics

SA/D Dnwind:	35.260
SA/D Average:	29.16
SA/D Upwind:	23.050
D/Length:	209.5
Ave Perf Screen:	13.900
DnWind Perf	16.8
Screen:	

#### Standard Ratings

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.370	0.589	0.790	0.927	1,292.7	812.5	605.3	516.4
W50/L50	0.357	0.580	0.804	0.955	1,642.4	1,010.2	728.9	614.2
W60/L40	0.365	0.589	0.805	0.939	1,638.4	1,015.6	743.4	637.2
MOSTLY WW	0.399	0.623	0.808	0.897	1,510.5	967.1	745.5	671.6
MOSTLY LW	0.359	0.572	0.784	0.971	1,317.4	826.0	602.9	486.5

#### Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.784	673.2
IR#	0.799	668.7

#### ORR-Ez PHRF

TOD (Spin)
132.4

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	1,293.7	925.3	748.5	653.7	599.2	543.2	514.9	496.9
W50/L50	1,642.5	1,160.3	925.4	795.3	719.2	645.6	610.7	590.0
W60/L40	1,638.4	1,162.5	931.7	806.1	734.1	665.3	633.6	616.5
MOSTLY WW	1,510.4	1,091.6	893.8	791.0	738.6	688.9	668.0	661.2
MOSTLY LW	1,317.4	941.5	760.8	660.2	595.4	526.2	483.6	452.6
MOSTLY REACH								

#### ORR-Ez PHRF Time Allowance 4 Winds

	TOD (Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	302.3	179.2	123.4	112.8
W50/L50	435.5	241.8	142.2	127.8
W60/L40	422.3	241.0	147.3	131.7
MOSTLY WW	343.4	216.4	145.8	130.2
MOSTLY LW	372.9	206.1	125.1	112.4

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#### 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	46.4	45.3	43.9	41.4	39.0	36.5	35.6	35.9
Beat VMG	1,585.48	1,146.72	939.80	834.49	783.56	736.00	718.05	715.61
52°	999.64	732.94	610.67	566.07	546.81	527.76	519.90	517.02
60°	908.65	679.85	580.92	544.09	527.42	510.48	503.09	500.07
75°	820.38	629.77	556.64	522.68	503.69	486.87	478.62	474.49
90°	812.84	625.92	555.59	522.29	498.73	471.30	460.87	454.69
110°	931.24	695.46	592.88	552.28	524.71	483.86	451.60	436.42
120°	1,062.64	777.60	646.32	580.15	545.95	499.22	463.53	433.59
135°	1,446.07	992.34	766.76	653.51	584.40	519.74	477.98	443.04
150°	1,716.82	1,148.22	863.91	715.55	621.45	534.54	487.69	450.98
165°	1,781.91	1,198.24	906.53	741.47	639.15	537.77	486.46	447.04
Run VMG	1,799.73	1,209.92	915.15	748.35	645.00	543.07	491.86	452.82
Opt Run Angle	171.9	171.9	172.0	172.1	172.0	173.2	173.4	172.8

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

#### Performance Metrics

SA/D:	23.05
D/Length:	209.5
Perf Screen:	11.0

#### Standard Ratings

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.348	0.560	0.763	0.899	1,374.9	854.2	627.1	532.0
W50/L50	0.345	0.570	0.800	0.954	1,701.3	1,029.4	732.4	614.2
W60/L40	0.355	0.580	0.802	0.939	1,685.2	1,031.0	746.2	637.2
MOSTLY WW	0.395	0.619	0.806	0.895	1,524.5	972.7	747.8	673.2
MOSTLY LW	0.323	0.535	0.756	0.935	1,462.2	883.2	625.0	505.2

#### Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.750	703.3
IR#	0.789	678.9

#### ORR-Ez PHRF

TOD (Non-Spin)
142.6

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	1,381.4	980.7	786.5	682.1	621.1	559.3	530.1	513.4
W50/L50	1,714.8	1,197.2	942.5	803.9	724.3	646.6	610.9	589.9
W60/L40	1,695.8	1,192.0	945.4	813.0	738.3	666.1	633.8	616.5
MOSTLY WW	1,527.1	1,101.0	898.9	794.7	741.2	690.2	669.7	663.2
MOSTLY LW	1,478.4	1,030.7	810.1	689.7	619.2	544.8	503.1	471.4
MOSTLY REACH								

#### ORR-Ez PHRF Allowance 4 Winds

	TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	384.5	220.9	145.2	128.4
W50/L50	494.4	261.0	145.7	127.8
W60/L40	469.1	256.4	150.1	131.7
MOSTLY WW	357.4	222.0	148.1	131.8
MOSTLY LW	517.7	263.3	147.2	131.1