

Kestrel Capri 22 Catalina 46177

Class: Capri 22 Catalina Configuration: one design standard Sail Number: 46177 Year Built: 1987 Builder Test: Owner(s): Johnson, Eric							
Certificate #: EZ11605 Valid Year: 2023 Issue Date: 2023-01-23 Exp.Date: 2023-12-31 Offsets_file: Capri22DK_JT.OFF Cert Group: ORR-Ez SOCAL Comment:							
Rig Type: Sloop Forestay: Fractional Keel Type: Fin Prop Type: Outboard							
LOA: 21.98 ft LWL: 20.00 ft Rated Length: 20.60 ft Beam Max: 7.86 ft Draft: 4.00 ft Disp Empty: 2275 lbs Disp Sailing: 3042 lbs Crew: 555 lbs Water Ballast: lbs Wetted Area: 116.1 ft ² LPS: 104.0 ° RM20: 132.2 ft-lbs Stab Index: 93 °							
Spinnaker: Symmetrical flown with spinnaker pole Code Zero: No Genoa/Jib Leech: No Roach - Leech is straight Large Roach Headsail: No Jib Furler: No Main Roller Furling: No							
Rig Dimensions IG: 25.00 ft ISP: 25.00 ft J: 8.16 ft P: 26.00 ft E: 9.75 ft SPL: 8.16 ft		Mainsail Meas. HB: 0.39 ft MGT: 2.15 ft MGU: 3.70 ft MGM: 6.34 ft MGL: 8.48 ft Area: 157.6 ft ²		Jib/Genoa Meas. LP: 12.65 ft LPG %: 155.0 % J Luff: 25.66 ft J Leech: 23.75 ft Area: 162.2 ft ²		Symmetric Spin. Meas. SL: 24.98 ft SMW: 14.69 ft SF: 14.69 ft Area: 305.8 ft ²	

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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	46.2	45.2	44.1	41.1	39.1	37.4	37.1	37.7
Beat VMG	1,819.5	1,305.3	1,059.6	959.4	911.2	868.6	855.6	855.5
52°	1,136.40	832.12	692.16	650.98	630.66	611.08	602.34	598.88
60°	1,015.89	764.62	658.40	622.42	604.56	586.15	576.97	570.54
75°	918.81	707.26	627.46	589.46	569.90	543.81	528.41	518.05
90°	894.59	685.52	604.47	564.38	541.85	509.89	490.38	475.97
110°	901.31	693.52	614.95	571.17	535.15	477.45	442.48	419.07
120°	978.26	738.70	638.78	592.92	556.20	486.92	419.83	393.36
135°	1,316.4	902.64	712.12	638.11	594.02	524.90	454.32	379.33
150°	1,612.3	1,096.2	841.08	700.25	634.61	557.69	494.32	424.19
165°	1,798.3	1,222.6	935.5	774.9	675.37	584.31	521.70	460.45
Run VMG	1,861.7	1,265.7	968.5	802.2	698.0	598.1	534.4	474.0
Opt Run Angle	135.0	142.2	154.2	156.5	168.5	173.3	172.6	171.1

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

Performance Metrics

SA/D Dnwind:	35.320
SA/D Average:	29.85
SA/D Upwind:	24.380
D/Length:	155.2
Ave Perf Screen:	19.200
DnWind Perf	22.8
Screen:	

Standard Ratings

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.328	0.523	0.703	0.833	1,462.9	917.0	682.3	575.4
W50/L50	0.314	0.517	0.711	0.837	1,870.2	1,137.1	825.3	701.6
W60/L40	0.321	0.523	0.708	0.816	1,867.2	1,146.1	846.1	734.5
MOSTLY WW	0.348	0.549	0.703	0.766	1,735.5	1,098.0	858.9	788.2
MOSTLY LW	0.315	0.512	0.708	0.906	1,502.3	925.2	668.8	522.4

Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.697	758.8
IR#	0.709	754.1

Aligned Time Allowance

	TOD (Spin)
Aligned IR#	217.8

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

Standard PCS Ratings

	TOD (Spin)							
	4	6	8	10	12	16	20	24
RANDOM LEG	1,462.9	1,044.5	844.2	738.7	677.4	613.3	576.8	549.6
W50/L50	1,863.1	1,306.1	1,034.1	894.3	816.0	740.9	701.5	671.0
W60/L40	1,860.1	1,312.1	1,044.1	910.5	837.3	768.2	734.0	709.6
MOSTLY WW	1,729.1	1,239.1	1,005.1	904.2	853.0	805.6	786.9	779.4
MOSTLY LW	1,497.1	1,058.1	845.7	734.2	662.6	580.7	520.7	479.9

Aligned Time Allowance 4 Winds

	TOD (Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	472.5	283.7	200.4	171.8
W50/L50	663.3	368.7	238.6	215.2
W60/L40	651.1	371.5	250.0	229.0
MOSTLY WW	568.4	347.3	259.2	246.8
MOSTLY LW	557.8	305.3	191.0	148.3

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Opt Beat Angle	46.2	45.2	44.1	41.1	39.1	37.4	37.1	37.7
Beat VMG	1,819.5	1,305.3	1,059.6	959.4	911.2	868.6	855.6	855.5
52°	1,136.40	832.12	692.16	650.98	630.66	611.08	602.34	598.88
60°	1,015.89	764.62	658.40	622.42	604.56	586.15	576.97	572.47
75°	918.81	707.26	627.46	589.46	571.12	550.59	538.66	530.28
90°	909.53	701.88	624.85	584.03	554.35	524.55	507.67	494.79
110°	1,035.49	775.09	662.68	615.78	580.79	522.20	478.56	458.03
120°	1,193.87	861.84	704.76	643.64	603.86	542.64	486.97	446.57
135°	1,543.14	1,063.42	825.37	701.71	641.79	568.29	509.24	449.83
150°	1,834.68	1,225.24	920.53	766.37	674.38	586.74	525.95	467.20
165°	1,918.47	1,288.06	972.97	801.92	693.05	592.57	527.48	466.14
Run VMG	1,950.2	1,308.4	987.5	813.2	702.1	599.9	534.9	474.0
Opt Run Angle	171.6	171.7	171.8	171.9	172.4	173.3	172.6	171.1

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

Performance Metrics

SA/D:	24.38
D/Length:	155.2
Perf Screen:	15.7

Standard Ratings

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.313	0.504	0.683	0.807	1,530.2	951.9	702.3	593.9
W50/L50	0.309	0.513	0.710	0.837	1,897.6	1,145.8	826.1	701.7
W60/L40	0.317	0.520	0.708	0.816	1,889.0	1,153.1	846.8	734.6
MOSTLY WW	0.347	0.548	0.702	0.764	1,742.7	1,101.6	860.5	789.9
MOSTLY LW	0.292	0.488	0.687	0.866	1,621.8	969.6	688.9	546.9

Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.673	785.5
IR#	0.703	762.2

Aligned Time Allowance

	TOD (Non-Spin)
Aligned IR#	225.9

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

Standard PCS Ratings

	TOD (Non-Spin)							
	4	6	8	10	12	16	20	24
RANDOM LEG	1,534.4	1,090.5	876.4	763.4	697.5	630.5	595.0	570.1
W50/L50	1,902.2	1,327.1	1,044.7	899.6	818.3	741.7	701.8	671.0
W60/L40	1,891.1	1,328.4	1,052.4	914.8	839.2	768.9	734.3	709.6
MOSTLY WW	1,738.1	1,245.1	1,008.1	907.3	854.6	807.3	788.7	781.3
MOSTLY LW	1,630.1	1,129.1	881.6	760.0	683.7	603.8	547.8	501.2

Aligned Time Allowance 4 Winds

	TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	539.8	318.6	220.4	190.3
W50/L50	690.7	377.4	239.4	215.3
W60/L40	672.9	378.5	250.7	229.1
MOSTLY WW	575.6	350.9	260.8	248.5
MOSTLY LW	677.3	349.7	211.1	172.8