

## CC Rider J/120 R 28596

<b>Spinnaker</b>	<b>GPH: 0.919 / 576.6</b>	<b>IR#: 0.926 / 579.2</b>	<b>PHRF BM: 43.0</b>
<b>Non-Spin</b>	<b>GPH: 0.855 / 619.3</b>	<b>IR#: 0.892 / 601.2</b>	<b>PHRF BM: 65.0</b>

Class: J/120 R Configuration: Sail Number: 28596 Year Built: 1996 Builder: TILLOTSON-PEARSON Owner(s): Nichols, Charles	
Certificate #: EZ11899 Valid Year: 2024 Type: New Cert Issue Date: 2024-03-20 Exp. Date: 2024-12-31 Offsets_file: US30532.OFF Cert Group: ORR-Ez SOCAL Comment:	
Rig Type: Sloop Forestay: Masthead Keel Type: Fin with Bulb Prop Type: Folding Prop Install: Exposed Prop Blades: 2	
LOA: 40.17 ft LWL: 35.00 ft Rated Length: 37.51 ft Beam Max: 12.00 ft Draft: 7.11 ft Disp Empty: 15395 lbs Disp Sailing: 17562 lbs Crew: 1810 lbs Water Ballast: 0 lbs Wetted Area: 353.6 ft² LPS: 121.3 ° RM20: 1266.9 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: Yes Above Deck Main Roller Furling: No	

<b>Rig Dimensions</b> IG: 50.50 ft ISP: 52.00 ft J: 14.50 ft P: 46.50 ft E: 17.80 ft TPS: 21.50 ft	<b>Mainsail Meas.</b> HB: 0.52 ft MGT: 3.74 ft MGU: 6.77 ft MGM: 11.57 ft MGL: 15.09 ft Area: 508.2 ft²	<b>Jib/Genoa Meas.</b> LP: 22.48 ft LPG %: 155.0 % J Luff: 50.26 ft J Leech: 47.93 ft Area: 564.9 ft²	<b>Asymmetric Spin. Meas.</b> ASLU: 64.30 ft ASLE: 52.00 ft AMG: 37.14 ft ASF: 34.71 ft Area: 1776.3 ft²
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### 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	47.7	46.1	44.0	42.7	40.1	37.1	35.9	36.1
Beat VMG	1,465.80	1,048.10	847.58	741.81	687.64	637.20	617.05	609.39
52°	915.38	661.47	541.56	492.48	471.85	451.81	442.37	436.91
60°	831.20	609.32	507.54	469.88	453.16	435.70	426.85	421.40
75°	746.73	559.39	478.74	447.98	430.93	409.66	397.25	389.34
90°	686.07	522.40	456.73	430.05	412.46	388.87	373.48	363.16
110°	678.57	516.76	451.88	419.35	399.05	370.55	348.68	331.66
120°	707.49	535.01	463.52	429.53	404.40	364.97	338.97	318.06
135°	906.84	638.92	511.33	465.98	436.69	391.56	348.83	300.60
150°	1,110.64	782.51	622.24	539.03	484.84	425.94	384.77	344.62
165°	1,238.76	872.78	694.02	601.21	538.16	460.15	413.65	377.05
Run VMG	1,282.46	903.57	718.51	622.42	557.15	471.06	420.52	382.22
Opt Run Angle	133.1	135.0	137.3	145.3	154.1	172.8	172.9	172.2

#### Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.919	576.6
IR#	0.926	579.2

#### Performance Metrics

SA/D Dnwind:	54.110
SA/D Average:	39.76
SA/D Upwind:	25.410
D/Length:	148.5
Ave Perf Screen:	26.800
DnWind Perf Screen:	36.4

#### PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,111.6	794.2	641.7	560.4	512.8	462.2	434.5	414.7
W50/L50	1,400.7	994.0	796.9	692.2	630.1	560.2	523.9	500.6
W60/L40	1,420.0	1,008.9	810.0	704.7	643.4	577.0	543.8	523.6
MOSTLY WW	1,500.6	1,065.3	854.3	740.1	674.3	609.2	581.9	569.9
MOSTLY LW	1,184.4	840.0	672.9	580.5	522.6	453.9	412.7	383.3
MOSTLY REACH	1,010.1	725.7	590.1	519.8	479.2	436.0	410.0	389.3

### 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	47.7	46.1	44.0	42.7	40.1	37.1	35.9	36.1
Beat VMG	1,465.80	1,048.10	847.58	741.81	687.64	637.20	617.05	609.39
52°	915.38	661.47	541.56	492.48	471.85	451.81	442.37	436.91
60°	831.20	609.32	507.54	469.88	453.16	435.70	426.85	421.40
75°	743.69	559.39	481.27	447.98	430.93	413.80	404.18	397.36
90°	732.53	553.16	478.34	444.93	422.31	398.82	386.85	377.48
110°	823.37	606.66	508.50	468.98	443.06	404.79	373.84	357.96
120°	934.05	677.44	557.05	495.23	463.36	420.50	386.75	356.07
135°	1,298.94	886.44	680.94	576.12	508.17	445.47	405.94	372.11
150°	1,600.64	1,064.11	795.86	650.07	560.40	465.97	419.84	384.41
165°	1,637.41	1,098.77	829.53	672.01	574.69	467.72	416.51	377.56
Run VMG	1,660.67	1,113.90	840.55	680.30	581.22	472.45	420.99	382.22
Opt Run Angle	172.1	172.1	172.2	172.2	172.1	172.8	172.9	172.2

#### Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.855	619.3
IR#	0.892	601.2

#### Performance Metrics

SA/D:	25.41
D/Length:	148.5
Perf Screen:	17.1

#### PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,246.2	878.0	698.1	599.9	541.6	480.6	450.6	431.8
W50/L50	1,583.5	1,097.1	856.4	722.1	643.0	561.3	524.1	500.6
W60/L40	1,565.8	1,091.4	857.6	728.7	653.8	577.9	543.9	523.5
MOSTLY WW	1,535.1	1,085.8	867.2	748.0	679.1	611.0	583.2	571.2
MOSTLY LW	1,417.2	980.6	764.4	641.2	565.0	479.0	431.8	397.9
MOSTLY REACH	1,139.6	807.8	646.7	560.7	509.9	457.5	430.4	413.3

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### 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	0.468	0.613	0.782	0.945	1.191	1,111.6	849.2	665.4	550.6	437.1
W50/L50	0.453	0.597	0.767	0.935	1.201	1,400.7	1,063.9	827.7	678.6	528.3
W60/L40	0.456	0.600	0.770	0.936	1.182	1,420.0	1,079.6	841.2	692.1	548.1
MOSTLY WW	0.458	0.603	0.775	0.944	1.171	1,500.6	1,140.1	886.5	727.6	587.0
MOSTLY LW	0.446	0.588	0.758	0.934	1.269	1,184.4	899.1	697.8	566.1	416.6
MOSTLY REACH	0.481	0.626	0.793	0.949	1.179	1,010.1	775.3	611.9	511.7	411.8

#### Standard Single Wind

	TOT (Spin) Single	TOD (Spin) Single
RANDOM LEG	0.917	567.6
W50/L50	0.907	699.6
W60/L40	0.907	714.6
MOSTLY WW	0.911	754.2
MOSTLY LW	0.911	580.4
MOSTLY REACH	0.922	526.8

#### Legacy 4 Winds

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.433	0.689	0.927	1.101	1,111.6	697.6	518.4	436.5
W50/L50	0.420	0.677	0.924	1.116	1,400.7	869.3	636.9	527.2
W60/L40	0.423	0.680	0.923	1.098	1,420.0	883.1	650.4	547.0
MOSTLY WW	0.419	0.676	0.922	1.074	1,500.6	931.2	682.6	585.7
MOSTLY LW	0.410	0.663	0.920	1.169	1,184.4	733.4	528.5	415.7
MOSTLY REACH	0.446	0.704	0.931	1.095	1,010.1	640.3	483.9	411.3

### 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	0.418	0.553	0.718	0.886	1.146	1,246.2	940.8	725.3	587.7	454.3
W50/L50	0.401	0.538	0.712	0.899	1.200	1,583.5	1,179.0	891.8	705.9	528.7
W60/L40	0.414	0.553	0.726	0.907	1.181	1,565.8	1,171.6	892.6	714.0	548.5
MOSTLY WW	0.448	0.591	0.763	0.935	1.168	1,535.1	1,162.7	900.3	734.8	588.5
MOSTLY LW	0.373	0.502	0.665	0.849	1.212	1,417.3	1,054.1	795.4	623.1	436.3
MOSTLY REACH	0.426	0.561	0.723	0.882	1.119	1,139.6	864.7	671.7	550.3	433.7

#### Standard Single Wind

	TOT (Non-Spin) Single	TOD (Non-Spin) Single
RANDOM LEG	0.856	608.1
W50/L50	0.865	734.0
W60/L40	0.873	742.2
MOSTLY WW	0.901	762.4
MOSTLY LW	0.822	643.7
MOSTLY REACH	0.854	568.8

#### Legacy 4 Winds

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.386	0.630	0.877	1.060	1,246.2	763.5	548.5	453.4
W50/L50	0.371	0.624	0.901	1.115	1,583.5	943.2	652.6	527.5
W60/L40	0.384	0.637	0.906	1.097	1,565.8	942.3	663.0	547.3
MOSTLY WW	0.410	0.665	0.915	1.072	1,535.1	946.7	687.8	587.2
MOSTLY LW	0.343	0.578	0.848	1.117	1,417.3	841.7	573.3	435.2
MOSTLY REACH	0.395	0.638	0.873	1.041	1,139.6	705.8	516.1	432.9

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## Spinnaker

### PHRF Benchmark

43.0

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

### PHRF Single Wind

RANDOM LEG	47.1
W50/L50	64.9
W60/L40	66.8
MOSTLY WW	67.1
MOSTLY LW	51.6
MOSTLY REACH	41.3

### PHRF 5 Winds

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	122.7	87.0	60.7	42.9	34.0
W50/L50	193.2	135.3	91.3	59.0	40.4
W60/L40	200.5	141.1	95.7	61.2	38.0
MOSTLY WW	194.0	138.1	95.9	63.6	32.7
MOSTLY LW	122.6	88.1	63.3	47.2	45.6
MOSTLY REACH	103.3	73.3	51.4	37.6	30.2

## Non-Spinnaker

### PHRF Benchmark

65.0

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

### PHRF Single Wind

RANDOM LEG	87.6
W50/L50	99.3
W60/L40	94.4
MOSTLY WW	75.3
MOSTLY LW	114.9
MOSTLY REACH	83.3

### PHRF 5 Winds

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	257.3	178.6	120.6	80.0	51.2
W50/L50	376.0	250.4	155.4	86.3	40.8
W60/L40	346.3	233.1	147.1	83.1	38.4
MOSTLY WW	228.5	160.7	109.7	70.8	34.2
MOSTLY LW	355.5	243.1	160.9	104.2	65.3
MOSTLY REACH	232.8	162.7	111.2	76.2	52.1