

Komet Dehler 34 61181

Class: Dehler 34 Configuration: Sail Number: 61181 Year Built: 1988 Builder: DEHLER Owner(s): Mason, William			
Certificate #: EZ11804 Valid Year: 2023 Type: Mid Season Rev HPA Issue Date: 2023-09-23 Exp. Date: 2023-12-31 Offsets_file: US19239.OFF Cert Group: ORR-Ez SOCAL Comment:			
Rig Type: Sloop Forestay: Fractional Keel Type: Fin Prop Type: Folding Prop Install: Exposed Prop Blades: 3			
LOA: 33.15 ft LWL: 27.25 ft Rated Length: 28.44 ft Beam Max: 11.16 ft Draft: 5.73 ft Disp Empty: 9356 lbs Disp Sailing: 10770 lbs Crew: 1287 lbs Water Ballast: 0 lbs Wetted Area: 241.6 ft ² LPS: 115.9 ° RM20: 623.3 ft-lbs Stab Index: 114 °			
Spinnaker: Asymmetrical only flown with spinnaker pole Code Zero: No Genoa/Jib Leech: No Roach - Leech is straight Large Roach Headsail: No Jib Furler: Yes Above Deck Main Roller Furling: No			
Rig Dimensions IG: 40.10 ft ISP: 40.10 ft J: 11.41 ft P: 39.66 ft E: 14.50 ft SPL: 12.50 ft	Mainsail Meas. HB: 0.01 ft MGT: 1.81 ft MGU: 3.63 ft MGM: 7.25 ft MGL: 10.88 ft Area: 287.6 ft ²	Jib/Genoa Meas. LP: 12.62 ft LPG %: 110.6 % J Luff: 39.60 ft J Leech: 38.09 ft Area: 249.9 ft ²	Asymmetric Spin. Meas. ASLU: 38.83 ft ASLE: 36.16 ft AMG: 18.83 ft ASF: 20.75 ft Area: 600.3 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	47.8	45.6	42.8	42.7	40.4	37.9	36.9	37.1
Beat VMG	1,847.01	1,300.25	1,032.97	897.46	817.49	755.14	728.44	719.14
52°	1,137.08	815.37	661.53	591.14	556.14	528.39	516.52	509.75
60°	1,024.24	744.48	613.78	562.23	532.36	507.11	496.72	489.27
75°	908.38	667.87	558.31	516.74	496.05	474.23	461.54	453.39
90°	820.10	621.32	539.60	502.46	477.66	451.79	435.86	425.31
110°	841.50	636.60	551.82	515.09	488.71	446.52	411.03	391.54
120°	920.50	681.83	575.26	533.53	504.70	460.77	422.03	382.11
135°	1,189.30	819.21	663.03	578.50	537.27	484.95	445.37	407.59
150°	1,456.59	1,002.67	777.29	656.49	579.23	509.58	466.49	430.13
165°	1,624.62	1,118.33	866.95	724.94	628.21	531.29	482.86	445.86
Run VMG	1,681.93	1,157.78	897.53	750.52	650.35	542.68	491.21	453.71
Opt Run Angle	129.1	136.4	149.2	163.4	165.9	176.9	177.8	177.6

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

Performance Metrics

SA/D Dnwind:	29.140
SA/D Average:	23.39
SA/D Upwind:	17.640
D/Length:	209.1
Ave Perf Screen:	11.200
DnWind Perf	13.9
Screen:	

Standard Ratings

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.346	0.561	0.772	0.924	1,381.7	852.9	620.1	518.0
W50/L50	0.327	0.544	0.775	0.946	1,790.8	1,078.2	756.0	619.9
W60/L40	0.331	0.548	0.774	0.929	1,807.9	1,093.0	773.2	644.0
MOSTLY WW	0.349	0.567	0.774	0.887	1,726.6	1,062.4	778.0	679.4
MOSTLY LW	0.340	0.552	0.766	0.966	1,391.0	856.0	616.5	489.3

Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.757	696.7
IR#	0.772	692.2

ORR-Ez PHRF

TOD (Spin)
155.9

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	1,383.0	978.6	782.0	676.1	613.1	548.5	516.2	496.0
W50/L50	1,790.7	1,248.5	981.4	834.7	744.7	656.1	615.9	592.2
W60/L40	1,807.9	1,263.4	995.6	849.9	761.8	677.5	639.9	619.1
MOSTLY WW	1,726.6	1,218.1	970.1	843.3	766.8	703.6	675.5	663.2
MOSTLY LW	1,390.8	981.6	782.2	678.4	608.8	531.2	487.3	451.6
MOSTLY REACH								

ORR-Ez PHRF Time Allowance 4 Winds

	TOD (Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	391.3	219.6	138.2	114.4
W50/L50	583.9	309.8	169.3	133.5
W60/L40	591.8	318.4	177.1	138.5
MOSTLY WW	559.5	311.7	178.3	138.0
MOSTLY LW	446.5	236.1	138.7	115.2

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Opt Beat Angle	47.8	45.6	42.8	42.7	40.4	37.9	36.9	37.1
Beat VMG	1,847.01	1,300.25	1,032.97	897.46	817.49	755.14	728.44	719.14
52°	1,137.08	815.37	661.53	591.14	556.14	528.39	516.52	509.75
60°	1,024.24	744.48	613.78	562.23	532.36	507.11	496.72	490.44
75°	923.67	683.79	576.52	535.48	508.96	479.02	468.65	461.62
90°	917.92	681.25	576.18	536.16	509.71	472.24	448.84	439.72
110°	1,045.99	762.50	630.84	568.30	535.62	491.64	458.31	429.65
120°	1,215.56	864.03	693.99	602.20	557.21	505.94	469.92	438.77
135°	1,580.61	1,068.03	812.02	683.64	600.23	526.09	483.56	449.86
150°	1,828.62	1,214.08	906.85	743.29	644.48	542.69	494.38	458.92
165°	1,893.74	1,267.11	953.82	774.93	666.75	548.89	495.73	457.90
Run VMG	1,924.93	1,287.32	968.52	786.44	676.30	555.61	501.66	463.82
Opt Run Angle	171.4	171.5	171.7	171.8	171.9	173.5	174.2	174.1

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

Performance Metrics

SA/D:	17.64
D/Length:	209.1
Perf Screen:	8.4

Standard Ratings

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.318	0.524	0.737	0.894	1,502.9	912.8	649.4	535.4
W50/L50	0.310	0.524	0.763	0.938	1,893.6	1,118.1	768.0	625.2
W60/L40	0.317	0.532	0.764	0.923	1,890.0	1,125.0	782.8	648.2
MOSTLY WW	0.343	0.560	0.769	0.884	1,757.8	1,075.2	783.4	682.0
MOSTLY LW	0.292	0.497	0.727	0.919	1,615.5	950.4	649.8	514.2

Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.715	738.0
IR#	0.753	711.3

ORR-Ez PHRF

TOD (Non-Spin)	175.0
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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	1,509.6	1,057.4	835.3	714.5	642.1	568.0	533.0	512.7
W50/L50	1,905.9	1,311.6	1,016.5	854.1	757.7	662.9	621.2	597.3
W60/L40	1,899.8	1,313.9	1,023.7	865.5	772.2	682.9	644.1	623.2
MOSTLY WW	1,760.4	1,237.1	980.8	850.2	772.6	706.9	677.8	665.7
MOSTLY LW	1,630.6	1,119.3	865.2	723.8	642.8	555.7	511.6	479.3
MOSTLY REACH								

ORR-Ez PHRF Allowance 4 Winds

	TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	512.5	279.5	167.5	131.8
W50/L50	686.7	349.7	181.3	138.8
W60/L40	673.9	350.4	186.7	142.7
MOSTLY WW	590.7	324.5	183.7	140.6
MOSTLY LW	671.0	330.5	172.0	140.1