

## 2012 Vic-Maui Race Handicap Certificate

Boat **Red Heather** Vic-Maui Handicap: **56** sec/mi.  
 Type **Olson 40**  
 Sail # **69069**  
 Issue date of this certificate: **June 15, 2012** rev. # : **2**

### Compliance

I have read and understand my responsibilities with respect to maintaining my boat in compliance with this handicap certificate. I have reviewed the dimensions as submitted below and confirm that they are correct.

Owner's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Owner/charterer: **John Gugins**

### Dimensions as submitted:

main		foretriangle		spinnaker		hull		propellor	
P	44	I	50	Sym	<input checked="" type="checkbox"/>	LOA	40.00	blades	2
E	14	J	15.75	SPL	15.75	LWL	36.00	exposd	<input checked="" type="checkbox"/>
HB	0.50	LP	24.00	LLS	50.17	Bm	11.33	in app	<input checked="" type="checkbox"/>
MGU	5.66	LLJ	50.83	G*	28.35	Dr	6.50	fldg	<input checked="" type="checkbox"/>
MGM	9.40			Asym	<input checked="" type="checkbox"/>	Displ	10300	fthrg	<input checked="" type="checkbox"/>
Launch date	1984			Sprit	0.00	Ballast	5600	solid	<input checked="" type="checkbox"/>
Design Date	1983			SLU	0.00				
Keel type	fin			SLE	0.00				
				SGF	0.00				

### VM factors

Disp/Length	91	0.996				0.394%
Sail Area/Disp	41	0.997				0.256%
Sail Area/WS	3.40	0.992				0.772%
Keel & Rudder	fin	0.998	ratio	0.162		0.193%
Age Date	1983	0.989				1.080%
Total VM factor =						2.7%

Vic-Maui VPP **492.1** sec/mi **47.9** Feet  
 V M Handicap correction **4.3** sec/mi **46.6** Feet  
 VM constant **-440** sec/mi

Vic-Maui Handicap: **56** sec/mi

True wind angle	True wind speed						
	6	8	10	12	14	16	20
VMG Beating	996.6	828.4	741.4	694.3	651.1	639.1	643.7
90	546.3	479.6	447.6	428.3	411.1	402.4	396.8
110	569.7	485.0	446.3	421.9	399.2	382.6	368.9
120	601.6	502.4	456.7	426.2	388.3	368.0	349.8
150	838.0	659.9	557.4	494.5	428.5	380.7	330.0
VMG Running	967.6	762.0	643.7	567.2	477.2	423.5	379.1

True wind angle	True wind speed						
	6.00	8.00	10.00	12.00	14.00	16.00	20.00
VMG Beating	1.0%	0.8%	0.8%	0.3%	0.3%	xxxxx	xxxxx
90	0.8%	3.3%	3.3%	0.8%	xxxxx	xxxxx	xxxxx
110	xxxxx	1.2%	2.2%	2.2%	2.2%	1.7%	1.5%
120	xxxxx	1.1%	2.2%	4.5%	2.2%	1.1%	xxxxx
150	xxxxx	5.4%	6.7%	6.7%	4.0%	1.3%	2.7%
VMG Running	xxxxx	1.9%	5.8%	5.8%	8.7%	9.9%	7.6%

True wind angle	True wind speed						
	6.00	8.00	10.00	12.00	14.00	16.00	20.00
VMG Beating	9.97	6.63	5.93	2.08	1.95	xxxxx	xxxxx
90	4.37	15.83	14.77	3.43	xxxxx	xxxxx	xxxxx
110	xxxxx	5.82	9.82	9.28	8.78	6.50	5.53
120	xxxxx	5.53	10.05	19.18	8.54	4.05	xxxxx
150	xxxxx	35.64	37.35	33.13	17.14	4.95	8.91
VMG Running	xxxxx	14.48	37.33	32.90	41.52	41.92	28.81

True wind angle	True wind speed						
	6	8	10	12	14	16	20
VMG Beating	3.61	4.35	4.86	5.19	5.53	xxxxx	xxxxx
90	6.59	7.51	8.04	8.41	xxxxx	xxxxx	xxxxx
110	xxxxx	7.42	8.07	8.53	9.02	9.41	9.76
120	xxxxx	7.17	7.88	8.45	9.27	9.78	xxxxx
150	xxxxx	5.46	6.46	7.28	8.40	9.46	10.91
VMG Running	xxxxx	4.72	5.59	6.35	7.54	8.50	9.50