

## 2012 Vic-Maui Race Handicap Certificate

Boat Family Affair Vic-Maui Handicap: 74 sec/mi.  
 Type Beneteau First 45f5  
 Sail # 79117  
 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: Henning Buus

### Dimensions as submitted:

main	foretriangle	spinnaker	hull	propellor
P 57.08	I 55.15	Sym <input checked="" type="checkbox"/>	LOA 46.50	blades 3
E 19.29	J 16.08	SPL 16.50	LWL 36.50	exposd <input checked="" type="checkbox"/>
HB 0.50	LP 25.68	LLS 55.15	Bm 14.00	in app <input checked="" type="checkbox"/>
MGU 6.62	LLJ 54.58	G* 31	Dr 7.83	fldg <input checked="" type="checkbox"/>
MGM 11.72		Asym <input checked="" type="checkbox"/>	Displ 22500	ftthr <input checked="" type="checkbox"/>
Launch date 1990		Sprit 0.00	Ballast 8500	solid <input checked="" type="checkbox"/>
Design Date 1990		SLU 0.00		
Keel type fin		SLE 0.00		
		SGF 0.00		

### VM factors

Disp/Length	169	0.976			2.358%
Sail Area/Disp	32	0.990			0.953%
Sail Area/WS	3.70	0.995			0.543%
Keel & Rudder	fin	0.999	ratio	0.154	0.145%
Age Date	1990	0.993			0.748%
Total VM factor =					4.7%

Vic-Maui VPP 505.9 sec/mi 43.9 Feet  
 V M Handicap correction 8.0 sec/mi 41.8 Feet  
 VM constant -440 sec/mi  
 Vic-Maui Handicap: 74 sec/mi

True wind angle	True wind speed						
	6	8	10	12	14	16	20
VMG Beating	1017.2	816.3	711.0	660.9	633.3	615.5	598.7
90	568.1	486.2	446.2	422.2	410.5	399.7	377.4
110	596.4	491.7	448.1	422.2	401.6	326.2	362.7
120	624.3	507.1	458.4	430.3	409.2	391.1	359.5
150	867.7	671.7	557.2	492.3	455.7	431.2	394.9
VMG Running	1002.0	775.7	643.4	559.4	504.4	467.1	421.2

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	10.17	6.53	5.69	1.98	1.90	xxxxx	xxxxx
90	4.55	16.05	14.72	3.38	xxxxx	xxxxx	xxxxx
110	xxxxx	5.90	9.86	9.29	8.83	5.55	5.44
120	xxxxx	5.58	10.08	19.36	9.00	4.30	xxxxx
150	xxxxx	36.27	37.33	32.98	18.23	5.61	10.66
VMG Running	xxxxx	14.74	37.32	32.44	43.88	46.25	32.01

True wind angle	True wind speed						
	6	8	10	12	14	16	20
VMG Beating	3.54	4.41	5.06	5.45	5.68	xxxxx	xxxxx
90	6.34	7.40	8.07	8.53	xxxxx	xxxxx	xxxxx
110	xxxxx	7.32	8.03	8.53	8.96	11.04	9.93
120	xxxxx	7.10	7.85	8.37	8.80	9.20	xxxxx
150	xxxxx	5.36	6.46	7.31	7.90	8.35	9.12
VMG Running	xxxxx	4.64	5.60	6.44	7.14	7.71	8.55