

BOAT
Name
Sail Nr

GPH
596.8

HULL					
Length Overall	12.555 m				
Maximum Beam	3.770 m				
Displacement	7.882 kg				
Draft	2.473 m				
IMS Reg. Division	Cruiser/Racer				
Accommodation length	12.253 m				
Dynamic Allowance	0.44%				
Fwd Accommodation	Yes				
Hull Construction	Cored				
Carbon Rudder	No				
Trim Tab	No				
IMSL	11.538	VCGD	0.118	VCGM	0.179

GENERAL	
Class	Bavaria 42 Match
Designer	Jakopin
Builder	Bavaria
Series	03.2004
Age	03.2004
Age Allowance	0.26%
Offset File	BAV42MDK.OFF - 5.4.2004 20:49:00
Measurement by	Grubisa, Marinov - 20.04.2005



ORC
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2008
ORC International
Certificate

SCORING OPTIONS						
	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	596.8			666.5		
Time On Time	1.0054			1.0128		
Performance Line	PLT	PLD		PLT	PLD	
	0.771	54.4		0.980	251.3	
Triple Number	Low	Medium	High	Low	Medium	High
	0.9772	1.2898	1.4635	0.7388	1.0275	1.2121

Rating Office
Hrvatski jedriličarski Savez
Trg Franje Tuđmana 3/II
21000 Split
CROATIA



TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1026.9	842.6	734.5	688.1	661.4	645.1	631.3
52°	661.5	545.0	494.9	471.9	459.7	452.5	446.4
60°	618.0	518.3	475.3	452.4	443.0	437.4	432.0
75°	581.2	499.2	454.0	437.4	424.3	418.0	410.5
90°	558.3	479.8	442.1	424.3	416.0	409.2	392.1
110°	580.3	495.1	454.0	429.7	409.2	390.3	371.4
120°	624.4	516.5	468.7	438.8	418.2	397.3	361.7
135°	724.3	580.4	503.7	462.8	436.8	417.8	379.4
150°	870.9	683.2	571.4	505.7	466.7	440.5	403.7
Run VMG	1005.6	788.9	659.8	575.5	520.2	481.1	432.6

Certificate	
Number	015/08
ORC Ref	N/A
Issued On	27.2.2008
VPP Ver.	1.04
Valid until	31.12.2008

Selected Courses							
Windward / Leeward	1037.5	828.9	710.5	641.8	599.3	571.0	538.8
Circular Random	830.5	667.0	578.5	526.6	494.5	473.3	446.7
Ocean for PCS	937.3	731.7	614.9	542.0	493.6	459.4	413.0
Non Spinnaker	903.8	718.2	616.0	555.0	516.6	491.5	461.0

Crew Weight	
Declared	808 kg
Default*	808 kg
Double Handed ToD	596.3
Double Handed ToT	1.0062

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	44.4°	43.4°	41.9°	39.5°	38.1°	37.4°	36.9°
Beat VMG	3.51	4.27	4.90	5.23	5.44	5.58	5.70
52°	5.44	6.61	7.27	7.63	7.83	7.96	8.06
60°	5.83	6.95	7.57	7.96	8.13	8.23	8.33
75°	6.19	7.21	7.93	8.23	8.49	8.61	8.77
90°	6.45	7.50	8.14	8.49	8.65	8.80	9.18
110°	6.20	7.27	7.93	8.38	8.80	9.22	9.69
120°	5.77	6.97	7.68	8.20	8.61	9.06	9.95
135°	4.97	6.20	7.15	7.78	8.24	8.62	9.49
150°	4.13	5.27	6.30	7.12	7.71	8.17	8.92
Run VMG	3.58	4.56	5.46	6.26	6.92	7.48	8.32
Gybe Angles	141.7°	147.2°	148.3°	159.0°	167.4°	171.0°	175.6°

Sails Limitations	
Genoas	4
Jibs	3
Spinnakers	4
Spinnaker configuration	Asym. on Pole

Storm Sails Areas	
Heavy Weather Jib	33.67
Storm Jib	12.47
Storm Jib JL	10.27
Storm Trysail	15.01

Owner
Adriatic Challenge d.o.o.
Obala Kralja Petra
Krešimira IV 38A
HR 23210 Biograd
CROATIA

I certify that I understand
my responsibilities under
ORC Rules and Regulations

Signature



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SAILS RATED AREAS	
Jib / Genoa	48.53
Symmetric Spin.	119.10
Asymmetric Spin.	98.26
Code Zero	0.00
Mainsail	47.38

SAILS	
JL	HB
LPG	MSW
JR	MGT
SL	MGU
SMW	MGM
SF	MGL
ASF	AMG
ASF	ASL

BOAT	Name	Bavaria 42 Match
	Class	596.8
	GPH	596.8
	Data in	meters/kilograms

RIG	Spreaders	3
	Runners	0
	Jumpers	None
	Inner Forestay	None Fitted
	Carbon Mast	No
	Taper Hollows	No
	Art	None Fitted
	Forestay Tension	None Fitted
	Inner Forestay	None Fitted
	Carbon Mast	No
	Taper Hollows	No

HEAVY ITEMS	Windlass, Jib Furler	
	Anchor Weight	15.0
	C/R Adjustment	0.00200
	Anchor LCG	0.50

INCLINING TEST AND FREEBOARDS	Inclining Test	Current Inclining	SG	1.0250
	FFM	1.461	SFFP	0.240
	FAM	1.219	SAFP	11.890
	W1	25.000	PD1	61.0
	WD	12.310		
	W2	50.000	PD2	122.0
	GSA	78.5		
	W3	75.000	PD3	182.0
	PLM	2140.0		
	W4	100.00	PD4	242.0
	Limit of positive stability			
	Stability Index			116.5

PROPELLER	Installation	Strut Drive	PRD	0.410
	Type	Folding	PBW	
	Twin Screw	No	PIPA	0.0038
	ST1	0.070	ST2	0.188
	ST3	0.188	ST4	0.103
	ST5	0.298	EDL	2.690
	Maximum beam station from stem			8.058
	Righting Moment RM Measured / Default			190.8 / 195.4
	Limit of positive stability			112.2
	Stability Index			116.5

MANSAIL	
Id	1
HB	MGT
MGT	1.01
MGU	1.86
MGM	3.34
MGL	4.56
MSW	31.00
Area Measurer	47.38
Meas.Date	Unknown
Manufacturer	Unknown
Material	Unknown
Comment	

JIBS / GENOAS	
Id	1
JH	JGT
JGT	0.00
JGU	0.00
JGM	0.00
JGL	0.00
LPG	6.14
LPJ	14.88
OVhp	14.88
Area Measurer	45.69
Meas.Date	07.02.2007
Manufacturer	Olympic
Material	Pentex
Comment	

SYMMETRIC SPINNAKERS	
Id	1
SL	SMW
SMW	8.18
SF	8.00
Area Measurer	118.60
Meas.Date	07.02.2007
Manufacturer	Unknown
Material	Unknown
Comment	

ASYMMETRIC SPINNAKERS	
Id	1
SLU	SLE
SLE	16.70
ASL	15.85
AMG	7.50
ASF	7.35
Area Measurer	98.26
Meas.Date	09.07.2007
Manufacturer	Olympic
Material	Unknown
Comment	

MEASUREMENT INVENTORY	
Id	1
Measurer	Denis Marinov
Measurement Date	6.3.2007
Comment	
Id	1
Anchor	15.0
Chain	25.0
Tools	5.0
Weight	4.76
Distance Description	4.76 chain, rope
Id	1
Engine	VOLVO D 55
Model	
Id	1
Deck Gear	20.0
Weight Description	4.76
Id	1
Miscellaneous	22.0
Weight Description	0.00

MEASUREMENT INVENTORY	
Id	1
Item	Liquid Tank
Capct	150.0
Dist.	2.10
Condt Description	0.0 PVC Water
Id	2
Item	Liquid Tank
Capct	150.0
Dist.	9.94
Condt Description	0.0 PVC Water
Id	3
Item	Liquid Tank
Capct	150.0
Dist.	9.94
Condt Description	150.0 PVC Fuel
Id	4
Item	Liquid Tank
Capct	22.0
Dist.	8.60
Condt Description	22.0 INOX Boiler
Id	5
Item	Liquid Tank
Capct	80.0
Dist.	7.40
Condt Description	0.0 Holding tank
Id	1
Item	Battery
Weight	30.0
Distance Description	6.74 143 Ah starboard side
Id	2
Item	Battery
Weight	30.0
Distance Description	6.74 143 Ah starboard side
Id	3
Item	Miscellaneous
Weight	22.0
Distance Description	0.00