

IMS RATING CERTIFICATE No. 010/07
Based on: FULL MEASUREMENT (Metric)

IMS AMENDED TO JANUARY 2007
Offshore Racing Congress
Chelmsford, England
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IMS AMENDED TO JANUARY 2007 VPP: 13/MAR/07 13:49:54
Cert No 010/07 6 CRO1457.DAT 13/MAR/07 13:42:01
OFF Meas'd: 00/00/00 BAV42MDK.OFF 05/APR/04 20:49:00

NOT VALID AFTER 31.12.07.

GPH
600.6

YACHT DESCRIPTION
Name: Auckland
Sail No: CRO 1457
Class: Bavaria 42 Match
LOA: 12.555m Beam(MB) 3.770m
Designer: Jakopin
Builder: Bavaria
Rig: MASTHEAD SLOOP 137% Jib
Keel/CB: FIXED KEEL
PropInst: STRUT DRIVE FOLDING
FwdAccom: YES Spin: ASYM-POLE
HullCnst: HVYCORE RudCnst: STNDRD
Forestay: ADJST AFT BoomMtl: HEAVY
Spreadrs: 3 Sets InrFsty: NONE
Runners: NONE Jumpers: NONE
Dates: AGE:3/2004 SERIES : 3/2004
COMMENTS

RATING OFFICE:
Issued: Hrvatski jedrilicarski S
13/MAR/07 Trg Franje Tudjmana 3/II
Measured: 21000 Split
20/APR/05 CROATIA

Revalidation Authority: HJS
Measurer: Grubisa, Marinov

"I CERTIFY THAT I UNDERSTAND MY
RESPONSIBILITIES UNDER THE IMS."

OWNER:.....
Axon-Nelson d.o.o.
Obala Kralja Petra Kresimira IV 38A
HR 23210 Biograd
CROATIA

CENTERBOARD AND DRAFT
ECM 0.000 CBRC 0.000 CBMC 0.000 CBTC 0.000
WCBA 0.0 CBDA 0.000 KCDA 0.000 ECE 0.000
WCBB 0.0 CBDB 0.000 ENDPLATE ADJ (KEDA) 0.000
PROPELLER AND INSTALLATION
PRD 0.410 ST1 0.070 ST4 0.103 ST5 0.298 EDL 2.690

PIPA 0.0038 ST4MAX 0.109
FLOTATION DATA
FFPS 1.381 AFPS 1.174 SFFP 0.240 SAFP 11.890
FFM 1.461 FAM 1.219 FFPV 0.000 AFPV 0.000
FF 1.461 FA 1.219 SG 1.025

STABILITY DATA
W1 25.000 PD1 61.000 PLM 2140.000 PL 2134.680
W2 50.000 PD2 122.000 GSA 78.500 RSA 31500.0
W3 75.000 PD3 182.000 SMB 8.058 WD 12.310
W4 100.000 PD4 242.000 RM 190.0 RMC 190.0
RM2 194.3 RM20 172.0 RM40 131.3 RM60 89.2
RM90 31.7 WBV 0.0 CREW ARM (CRA) 1.835
CALCULATED LIMIT OF POSITIVE STABILITY: 112.2 DEGREES
RATIO STABILITY CURVE AREAS, POSITIVE/NEGATIVE 2.052

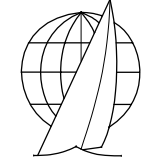
HYDROSTATICS MEASUREMENT TRIM SAILING TRIM
KEEL DRAFT (DHK0) 2.473 (DHKA) 2.516
2ND MOMENT LENGTH (LSM0) 11.338 (LSM1) 11.573
DISPLACEMENT (WEIGHT) (DSPM) 7882 (DSPS) 8991
WETTED SURFACE (WSM) 31.92 (WSS) 33.51
VCG FROM OFFSETS DATUM (For CLUB RM) (VCGD) 0.118
VCG FROM MEASUREMENT TRIM WATERLINE (VCGM) 0.179
INTEGRATED BEAM ATTENUATED WITH DEPTH (B) 3.350
MAXIMUM SECTION AREA (AMS1) 1.472
BEAM/DEPTH RATIO (BTR) 4.856
EFFECTIVE DRAFT (D) 2.204
2° HEEL (LSM2) 11.576 25° HEEL (LSM3) 11.662
SUNK (LSM4) 12.976 AVG LENGTH (L) 11.538
TRIM: 1mm/13.415m-kg SINK: 1mm/24.652kg

SAIL AREAS J01 AS01
MAIN+FORE+MIZ'N: 82.99 MAIN: 47.38 MIZ'N: 0.00
GENOA: 48.53 SYM: 119.10 ASYM: 102.44

FORETRIANGLE MAIN & SPARS
J 4.510 FSP 0.080
IG 15.688 LPG 6.14 HB 0.190 TH NO
MW 0.200 LP 6.22 MGT 1.01 TL 2.780
GO 0.230 JL 14.88 MGU 1.86 MDT1 0.117
ISP 15.798 JGT 0.00 MGM 3.34 MDL1 0.230
IM 15.793 JGU 0.00 MGL 4.56 MDT2 0.117
HBI 1.250 JGM 0.00 MSW 31.0 MDL2 0.165
SFJ 0.190 JGL 0.00 P 14.890 MWT 209.5
SPL 4.490 TPS 0.000 E 5.760 MCG 6.158
SL 0.00 ASL 16.02 EC 5.760 BD 0.178
SMW 0.00 AMG 7.50 BAS 1.660 CPW 2.300
SF ASF 7.35 SPS 3.000 BAL 0.075

MIZZEN
IY 0.000 PY 0.000 HBY 0.000 TLY 0.000
EB 0.000 EY 0.000 MGTY 0.000 MDT1Y 0.000
YSD 0.000 EY 0.000 MGUY 0.000 MDL1Y 0.000
YSF 0.000 BASY 0.000 MGMY 0.000 MDT2Y 0.000
YSMG 0.000 BALY 0.000 MGLY 0.000 MDL2Y 0.000
HBIY 0.000 BDY 0.000

O R C



SAIL LIMITATIONS
REGULATION 205

Genoas : 3
Jibs : 2
Spinnakers : 3

MAXIMUM STORM SAILS
AREAS FOR SPECIAL REGS

Heavy Weather Jib 33.7
Storm Jib JL=33.68 12.5
Storm Trysail 15.0

Default Crew Weight 808
Default Spinn.Luff 15.61
Default Spinn.Foot 8.12

HEAVY ITEMS

Bow Thruster NO
Anchor Windlass YES
Heavy Deck NO
Deck Int. Headliners NO
High Superstructures NO
Electric Generator NO
Air C.+Diss.+Water H NO
Liferafts on Deck NO
Radar on Stern/*Mast NO
Jib Furler YES
*Main Furler NO

*(if not included in MWT)

LIMITS AND REGULATIONS

Limit of Positive Stability: MEETS REQ Measurement Inventory: 06/MAR/07
Minimum Displacem't 4199kg: MEETS REQ Accom Lgth: RACE= 12.3 C/R= 12.3
Maximum Crew Weight: 808 kg. Accom Certificate: C/R DA= 0.45%
Stability Index: 116.5 Plan Approval: NONE FILED
C/R HeavyItems Pitch Adjustm't 0.00199 Anchor(s) Weight: 15 Dist: 0.50
Applied Age Allowance: 0.19%

NOTE TO OWNER: The range available to revise crew weight is 525- 970 kg.

TIME ALLOWANCES IN SEC/MI BY TRUE WIND VELOCITY & ANGLE
(NOT WIND-AVERAGED)

Wind Velocity:	6kt	8kt	10kt	12kt	14kt	16kt	20kt	CHECKSUM
BEAT ANGLES:	44.3°	43.4°	42.5°	40.2°	38.9°	38.2°	38.0°	(285.5)
BEAT VMG:	1022.1	845.4	753.3	708.9	683.3	668.2	657.8	(5339.0)
52°:	659.0	546.4	502.9	483.3	471.3	464.0	458.2	(3585.1)
R 60°:	615.8	519.0	480.2	462.1	452.3	446.4	441.1	(3416.9)
E 75°:	578.8	499.1	460.7	441.4	431.5	425.9	419.1	(3256.5)
A 90°:	556.0	479.7	445.2	429.7	421.6	414.2	400.3	(3146.7)
C 110°:	575.9	493.4	453.3	430.1	411.5	395.2	376.6	(3136.0)
H 120°:	619.8	514.3	467.3	438.8	419.3	400.2	367.4	(3227.1)
135°:	722.6	580.9	504.6	463.5	437.6	418.6	381.1	(3508.9)
150°:	872.6	684.7	572.5	506.5	467.4	441.2	404.4	(3949.3)
RUN VMG:	1007.6	790.6	661.1	576.5	520.9	481.7	433.0	(4471.4)
GYBE ANGLES:	141.7°	147.2°	148.2°	159.0°	167.5°	171.1°	175.8°	(1110.5)

NOTE: To convert any time allowance above to speed in knots: Kt = 3600/TA

TIME ALLOWANCES FOR SELECTED COURSES (AFTER WIND-AVERAGING)

Wnd/Lwd VMG	1034.1	830.6	718.0	651.2	609.3	581.5	551.2	(4975.9)
CircularRandom	830.2	669.1	582.4	532.0	501.0	480.6	455.5	(4050.8)
Ocean for PCS	939.3	735.2	619.6	547.5	499.6	465.8	420.0	(4227.0)
Non-Spinnaker	901.7	718.7	618.5	559.0	521.8	497.6	468.6	(4285.9)

SIMPLIFIED SCORING OPTIONS

	Time-on-Distance (sec/mi)			Time-on-Time TMF			Performance Line PLT PLD		
	Low	Medium	High	Low	Medium	High	Low	Medium	High
OFFSHORE (=GPH)	600.6			0.9990	(=600/GPH)		0.780	63.1	(Ocean)
INSHORE (=ILC)	673.5			1.0022	(=675/ILC)		1.028	291.0	(Olympic)
Performance Line Corrected Time = (PLT x Elapsed Time)-(PLD x Distance)									
TRI-NUMBER TMFS BY WIND RANGE									
WINDWARD	Low	Medium	High	CIRCULAR			Low	Medium	High
/LEEWARD	0.7366	1.0095	1.1828	RANDOM			0.9756	1.2710	1.4324

HJS
Croatian Sailing Federation

2007

SAILS AND HEAVY ITEMS INVENTORY (Metric units)

YACHT NAME: Auckland SAIL NO: CRO 1457 .DAT FILE: CRO1457.DAT

SAILS LIST

A. JIBS AND GENOAS													
N. ACT.	JH	JGT	JGU	JGM	JGL	LPG	JL	MEASURER	DATE	MANUFACTURER	MATERIAL	DESCRIPTION	
1	y	0.000	0.00	0.00	0.00	0.00	6.14	14.88	Marinov	20070207	Olimpic	pentex	
2	y	0.000	0.00	0.00	0.00	0.00	4.38	14.88	Marinov	20070207	Olimpic	pentex	
B. SYMMETRIC SPINNAKERS													
N. ACT.	SL	SMW	SF					MEASURER	DATE	MANUFACTURER	MATERIAL	DESCRIPTION	
1	n	15.51	8.18	8.00					Marinov	20070207	Olimpic	?	
C. ASYMMETRIC SPINNAKERS													
N. ACT.	SLU	SLE	AMG	ASF					MEASURER	DATE	MANUFACTURER	MATERIAL	DESCRIPTION
1	y	16.70	15.00	7.50	7.35					Marinov	20070709	Olimpic	?

INVENTORY

CAT ITEM	N.	WEIGHT	DIST.-FROM-STEM	DESCRIPTION	Owner	Measurer
A. engine	1	0.0	0.00	VOLVO d 55		
C. anchor	1	15.0	4.76			
D. chain	1	25.0	4.76	chain, rope		
E. tools	1	5.0	6.91			
F. battery	1	30.0	6.74	143 Ah starboard side		
F. battery	2	30.0	6.74	143 Ah starboard side		
F. battery	3	20.0	6.74	55 Ah starboard side		
G. misc	1	22.0	0.00			
H. deck gear	1	20.0	4.76			
CAT ITEM	N.	DIST.	CAPACITY	STATE	DESCRIPTION	
J. tank	1	2.1	150.	0.	PVC Water	
J. tank	2	9.9	150.	0.	PVC Water	
J. tank	3	9.9	150.	150.	PVC Fuel	
J. tank	4	8.6	22.	22.	INOX Boiler	
J. tank	5	7.4	80.	0.	Holding tank	
MEASURER	MEAS-CODE	DATE	DESCRIPTION			
Denis\032Marino	5	20070306	\032			

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1	y	0.000	0.00	0.00	0.00	0.00	6.14	14.88	Marinov	20070207	Olimpic	pentex	
2	y	0.000	0.00	0.00	0.00	0.00	4.38	14.88	Marinov	20070207	Olimpic	pentex	
B. SYMMETRIC SPINNAKERS													
N. ACT.	SL	SMW	SF					MEASURER	DATE	MANUFACTURER	MATERIAL	DESCRIPTION	
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C. ASYMMETRIC SPINNAKERS													
N. ACT.	SLU	SLE	AMG	ASF					MEASURER	DATE	MANUFACTURER	MATERIAL	DESCRIPTION
1	y	16.70	15.00	7.50	7.35					Marinov	20070709	Olimpic	?

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A. engine	1	0.0	0.00	VOLVO d 55		
C. anchor	1	15.0	4.76			
D. chain	1	25.0	4.76	chain, rope		
E. tools	1	5.0	6.91			
F. battery	1	30.0	6.74	143 Ah starboard side		
F. battery	2	30.0	6.74	143 Ah starboard side		
F. battery	3	20.0	6.74	55 Ah starboard side		
G. misc	1	22.0	0.00			
H. deck gear	1	20.0	4.76			
CAT ITEM	N.	DIST.	CAPACITY	STATE	DESCRIPTION	
J. tank	1	2.1	150.	0.	PVC Water	
J. tank	2	9.9	150.	0.	PVC Water	
J. tank	3	9.9	150.	150.	PVC Fuel	
J. tank	4	8.6	22.	22.	INOX Boiler	
J. tank	5	7.4	80.	0.	Holding tank	
MEASURER	MEAS-CODE	DATE	DESCRIPTION			
Denis\032Marino	5	20070306	\032			