

BOAT
Name A40
Sail Nr TP52 A40

GPH
453.8

HULL			
Length Overall	15.850 m		
Maximum Beam	4.418 m		
Displacement	7,152 kg		
Draft	3.347 m		
IMS Reg. Division	Performance		
Dynamic Allowance	0.000%		
Fwd Accommodation	No		
Hull Construction	Carbon, Aramid		
Carbon Rudder	Yes		
Crew Arm Extension			
IMS L	15.673	VCGD	-1.235
Sink	33.84 kg/mm	Wetted Area	42.20 m ²
		VCGM	-1.232

GENERAL
Class TP52
Designer J/V
Builder MC CONAGHY
Series 01/2011
Age 01/2011
Age Allowance 0.065%
Offset File 52ALL-v.off - 23/9/2012 15:25:08
Measurement by P. FERRER - 25/05/2012

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	438.5			514.5		
Time On Time	1.3684			1.3118		
Performance Line	PLT	PLD		PLT	PLD	
	0.975	13.6		0.970	127.5	
Triple Number	Low	Medium	High	Low	Medium	High
	1.1547	1.5909	2.0447	0.9307	1.2936	1.5849

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	822.7	668.1	595.5	549.5	521.3	507.6	492.8
52°	528.5	437.3	387.7	364.6	351.3	342.6	332.3
60°	493.5	406.4	363.7	344.8	332.2	323.4	312.1
75°	440.2	369.6	338.0	318.7	305.8	296.7	283.3
90°	417.5	350.9	323.1	304.1	287.1	275.9	260.6
110°	440.8	360.0	317.7	290.3	274.3	260.6	234.7
120°	482.5	397.4	339.0	307.7	276.9	251.4	227.4
135°	557.6	447.8	375.3	328.1	293.8	261.5	224.9
150°	677.3	544.0	448.9	389.0	350.0	316.4	250.1
Run VMG	782.1	628.2	518.4	449.2	404.2	365.4	288.7
Selected Courses							
Windward / Leeward	802.4	648.1	556.9	499.4	462.7	436.5	390.8
Circular Random	642.9	512.7	439.9	394.9	364.6	342.6	310.9
Ocean for PCS	689.6	537.2	448.9	391.8	351.7	321.7	278.2
Non Spinnaker	724.8	571.6	484.9	430.6	393.9	367.6	330.4

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	45.0°	41.8°	42.4°	41.7°	40.7°	40.3°	40.0°
Beat VMG	4.38	5.39	6.05	6.55	6.91	7.09	7.30
52°	6.81	8.23	9.29	9.87	10.25	10.51	10.83
60°	7.29	8.86	9.90	10.44	10.84	11.13	11.53
75°	8.18	9.74	10.65	11.30	11.77	12.13	12.71
90°	8.62	10.26	11.14	11.84	12.54	13.05	13.81
110°	8.17	10.00	11.33	12.40	13.13	13.82	15.34
120°	7.46	9.06	10.62	11.70	13.00	14.32	15.83
135°	6.46	8.04	9.59	10.97	12.25	13.77	16.01
150°	5.32	6.62	8.02	9.25	10.28	11.38	14.40
Run VMG	4.60	5.73	6.94	8.01	8.91	9.85	12.47
Gybe Angles	137.4°	142.2°	139.0°	144.9°	144.7°	142.5°	141.2°



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ORC International
Certificate

Rating Office

Offshore
Racing
Congress



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Certificate
Number 141704
ORC Ref GER00007047
Issued On 15/6/2012
VPP Ver. 2012 1.01
Valid until 31/12/2012

Crew Weight
Declared 1,275 kg
Default* 1,133 kg
Non Manual Power No

Special Scoring
ToD ToT
D. Hand OSN 444.5 1.3497
Non Spin. OSN 486.2 1.2341
N/S Perf. Line -16.6 0.824

Sails Limitations		
Genoas 0	Jibs 6	Spinnakers 4
Spinnaker configuration Asymmetric-CL + Code 0		

Storm Sails Areas
Heavy Weather Jib 52.87
Storm Jib (JL=12.86) 19.58
Storm Trysail 25.38

Owner

BOAT			
Name	A40	Sail Nr	TP52 A40
File	TP52A40.dxt	Data in	meters/kilograms

RIG				
Forestay Tension	Aft & Forward	Spreaders	3	
Inner Stay	None Fitted	Runners	0	
Carbon Mast	Yes	Jumper Struts	None	
Taper Hollows	No	Jib Furler	No	
Fiber Rigging	No	Main Furler	No	
Lenticular Rigging	No	Without Backstay	No	
Articulated Bowsprit	No			
P	20.400	E	7.110	MDT1 0.132 TL
IG	19.720	J	6.200	MDL1 0.303 MWT 296.80
ISP	22.400	SFJ	0.070	MDT2 0.132 MCG 9.415
SPS		SPL		MDL2 0.303 CPW
BAS	2.130	TPS	8.300	MW 0.303 BD 0.322
BAL	0.152	FSP	0.070	GO 0.325 BWT 35.00

MIZZEN RIG AND SAILS				
N/A				

COMMENTS				
TWIN BACKSTAY				

INCLINING TEST AND FREEBOARDS				
Inclining Test Current Inclining				
Flotation date	25/05/2012	SG	1.0260	
FFM	1.468	FF	1.468	SFFP 0.475
FAM	1.156	FA	1.156	SAFP 14.275
W1	180.00	PD1	227.4	WD 6.730
W2	180.00	PD2	227.5	GSA 1.0
W3	180.00	PD3	226.7	RSA 1.0
W4	180.00	PD4	225.9	PLM 9000.0
Max. beam station / LCF from stem				13.000 / 8.707
RM Measured / Default				420.5 / 339.7
Limit of positive stability				142.6°
Stability Index				141.5
Freeboard at mast at 6.270				1.248

PROPELLER				
Installation	Strut	PRD	0.420	
Type	Folding	PBW	0.112	
Twin Screw	No	PIPA	0.0038	
ST1	0.043	ST3	0.180	ST5 0.290
ST2	0.180	ST4	0.112	EDL 1.730

WATER BALLAST				
N/A				

CENTERBOARD				
N/A				

SAILS (Maximum Areas)										
Mainsail	HB	MGT	MGU	MGM	MGL	MSW		Area	Area (r)	Formula
	1.292	2.15	3.22	4.82	6.08	34.80		93.17	95.58	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG			
	0.15	0.90	1.69	3.18	4.75	20.19	6.29	64.63		$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
Symmetric										
Not Available										
Asymmetric	SLU	SLE	ASL	AMG	ASF					
	25.57	21.58	23.58	13.11	13.41			258.74		$ASL \cdot (ASF + 4 \cdot AMG) / 6$
Code Zero	SLU	SLE	ASL	AMG	ASF				Area (r)	
	22.56	21.50	22.03	4.97	9.02			106.11	156.39	$ASL \cdot (ASF + 4 \cdot AMG) / 6$

MEASUREMENT INVENTORY				
Measurer PABLO FERRER ESP 295				
Date 25/05/2012				
Comment				
Id	Item	Weight	Distance	VCG Description
A1	Anchor	60.0	10.53	2x
Id	Item	Maker	Model	
E1	Engine	YANMAR		
Id	Item	Weight	Description	
D1	Deck Gear	22.0		

MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description	
F1	Tank	FUEL	STEEL	25.0				0.0	
F2	Tank	FUEL	STEEL	60.0				0.0	
W1	Tank	WATER	FLEX	80.0	8.53			0.0	
Id	Item	Weight	Distance	VCG Description					
N1	Ballast			NONE					



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IMS Measurement Certificate

Certificate
 Number **141704**
 ORC Ref **GER00007047**
 Issued On **15/6/2012**
 VPP Ver. **2012 1.01**
 Valid until **31/12/2012**

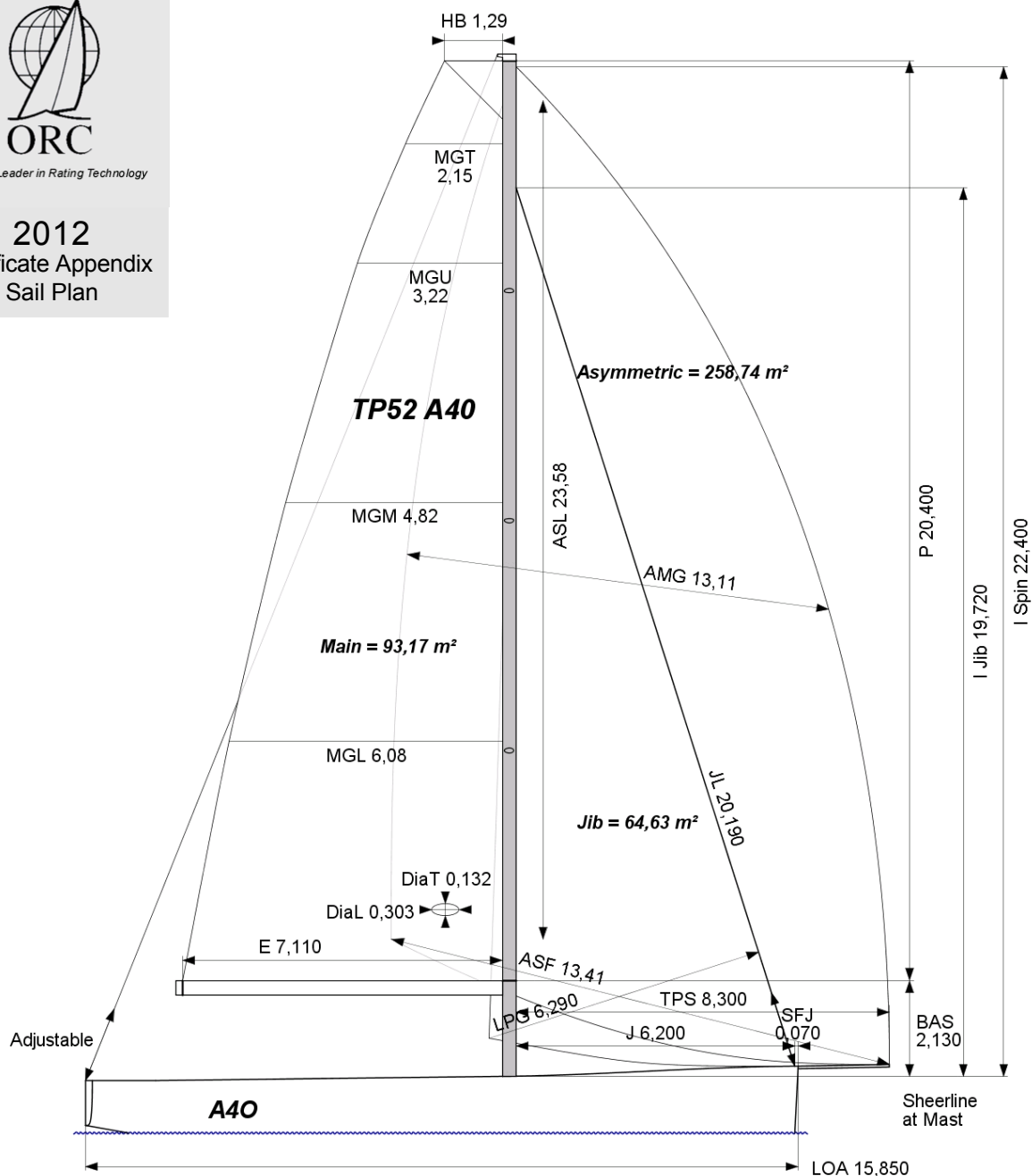


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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measur	Meas.Date	Manufacture	Material	Comment
ms	1.292	2.15	3.22	4.82	6.08	34.80	93.17	FERRER	29/05/2012		Unknown	

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JLT	Overlp	Area	Measur	Meas.Date	Manufacture	Material	Comment
LJ2	0.15	0.90	1.69	3.18	4.75	6.29	20.19	101%	64.64	FERRER	29/05/2012		Unknown	
LM2	0.17	0.91	1.69	3.17	4.76	6.29	20.15	101%	64.56	FERRER	29/05/2012		Unknown	
M2	0.15	0.92	1.68	3.12	4.71	6.28	20.11	101%	63.91	FERRER	29/05/2012		Unknown	

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measur	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measur	Meas.Date	Manufacture	Material	Comment
A41	25.57	21.58	23.58	13.11	13.41	258.74	asym	FERRER	29/05/2012		Unknown	
A21	25.28	21.82	23.55	13.18	13.14	258.50	asym	PFERRER	29/05/2012		Unknown	
A43	25.35	21.43	23.39	13.14	13.52	257.60	asym	FERRER	29/05/2012		Unknown	
A22	25.13	21.57	23.35	13.12	13.48	256.69	asym	FERRER	29/05/2012		Unknown	
A1.5-2	24.80	22.24	23.52	12.65	13.50	251.27	asym	FERRER	29/05/2012		Unknown	