

BOAT Name Macropus Sail Nr SLO 72	GPH 589.0	HULL Length Overall 11.924m Maximum Beam 3.770m Displacement 7,591kg Draft 2.437m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.045% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder Yes Crew Arm Extension
GENERAL Class First 40.7 Designer Farr Builder Bennetau Series 12/1997 Age 04/2001 Age Allowance 0.487% Offset File EFRST407+.OFF - 25/10/2016 17:33:16 Measurement by - 17/09/2015		IMSLS 10.755m VCGD -0.204m Sink 22.80kg/mm RL 9.837m VCGM 0.017m WS 30.50m² LSM0 10.676m Displacement/Length ratio 6.2384



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SCORING OPTIONS						
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	572.7			636.0		
Time on Time	1.0477			1.0613		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	672.1	522.5	468.7	865.2	638.4	556.5
Time on Time	1.0043	1.2918	1.4401	0.7802	1.0573	1.2130

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	973.1	809.2	715.0	673.3	655.9	647.8	642.8
52°	643.4	544.0	496.4	478.2	471.5	468.1	466.2
60°	610.9	522.2	484.5	468.1	460.4	456.4	453.4
75°	586.3	507.9	476.3	459.1	446.9	438.6	431.3
90°	592.1	508.7	474.9	455.1	441.4	427.6	407.8
110°	603.8	501.8	463.4	442.2	428.8	411.0	391.4
120°	616.4	509.2	466.7	442.4	420.2	403.1	375.6
135°	680.3	550.0	485.0	456.6	433.6	410.3	367.3
150°	804.7	648.9	543.9	485.0	458.4	437.1	394.9
Run VMG	929.2	749.3	628.0	552.7	506.6	472.3	429.9

Certificate
Number **I05/19**
ORC Ref **SLO00003894**
Issued On **20/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **756kg**
Maximum **756kg**
Minimum* **567kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Double H.GPH **596.2 1.0064**
Double H.OSN **581.1 1.0325**
Non Spin GPH **622.4 0.9640**
Non Spin OSN **604.7 0.9923**

Selected Courses							
Windward / Leeward	951.2	779.2	671.5	613.0	581.3	560.1	536.4
Circular Random	807.1	653.4	571.6	524.5	495.8	477.1	453.6
Coastal / Long Distance	949.0	732.8	608.1	539.7	505.3	478.4	435.6
Non Spinnaker	866.5	695.7	603.2	549.0	515.6	493.9	466.9

Sails Limitations
Headsails **6** Spinnakers **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	42.2°	40.7°	39.9°	38.3°	37.3°	37.3°	37.2°
Beat VMG	3.70	4.45	5.03	5.35	5.49	5.56	5.60
52°	5.60	6.62	7.25	7.53	7.64	7.69	7.72
60°	5.89	6.89	7.43	7.69	7.82	7.89	7.94
75°	6.14	7.09	7.56	7.84	8.06	8.21	8.35
90°	6.08	7.08	7.58	7.91	8.16	8.42	8.83
110°	5.96	7.17	7.77	8.14	8.40	8.76	9.20
120°	5.84	7.07	7.71	8.14	8.57	8.93	9.58
135°	5.29	6.55	7.42	7.89	8.30	8.77	9.80
150°	4.47	5.55	6.62	7.42	7.85	8.24	9.12
Run VMG	3.87	4.80	5.73	6.51	7.11	7.62	8.37
Gybe Angles	140.6°	149.1°	147.9°	156.0°	170.5°	180.0°	180.0°

Class Division Length
CDL = **10.297**

Storm Sails Areas
Heavy Weather Jib **34.05**
Storm Jib (JL=10.33) **12.61**
Storm Trysail **13.63**

Owner

BOAT	
Name Macropus	Sail Nr SLO 72
File SLO72	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 3
Inner Stay None Fitted	Runners 0
Carbon Mast No	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 14.640	E 5.320 MDT1 0.116 MW 0.217
IG 15.773	J 4.420 MDL1 0.217 GO 0.247
ISP 16.303	SFJ 0.000 MDT2 0.116 BD 0.187
BAS 1.743	SPL 4.730 MDL2 0.181 MWT
FSP 0.070	TPS 4.650 TL 0.690 MCG

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 17/09/2015		SG 1.0200
FFM 1.337	FF 1.337	SFFP 0.292
FAM 1.092	FA 1.097	SAFP 11.313
W1 100.0	PD1 569.1	WD 13.190
W2 100.0	PD2 569.7	GSA 1.0
W3 100.0	PD3 572.0	RSA 1.0
W4 100.0	PD4 573.5	PLM 9000.0
LCF from stem on CL / on sheer		6.548 / 6.777
Maximum beam station from stem		7.502
RM Measured		181.9kg-m
RM Default		185.3kg-m
Limit of positive stability / Stab.Index		118.1° / 121.7
Freeboard at mast at 4.420		1.196



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.440	
Type Folding 2 blades	PBW 0.112	
Twin Screw No	PIPA 0.0032	
ST1 0.054	ST3 0.172 ST5 0.295	
ST2 0.170	ST4 0.097 EDL 2.265	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.210	1.11	1.96	3.34	4.39	45.63	46.54	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	17.73	17.73	17.73	9.45	8.83	137.79		SL · (SFL + 4·SHW) / 6	
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL		Area (r)		
	15.91	14.83	15.37	5.53	7.34	75.47	91.08	AS · (SFL + 4·SHW) / 6	

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.10	0.79	1.55	3.12	4.72	6.37	15.38	48.53			20/04/2017	Unknow	Genoa 1 2017
0.07	0.60	1.19	2.33	3.45	4.52	15.40	35.54	Y		20/04/2017	Unknow	Jib 3 2017
0.08	0.61	1.20	2.33	3.42	4.55	14.77	34.11			25/05/2015	Kevlar	
0.08					4.11	14.58	30.49			23/08/2015	Dacron	Heavy
					2.72	9.07	12.56			23/08/2015	Dacron	Storm

MEASUREMENT INVENTORY				
Measurer CRO				
Date 17/09/2015				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Weight Description		

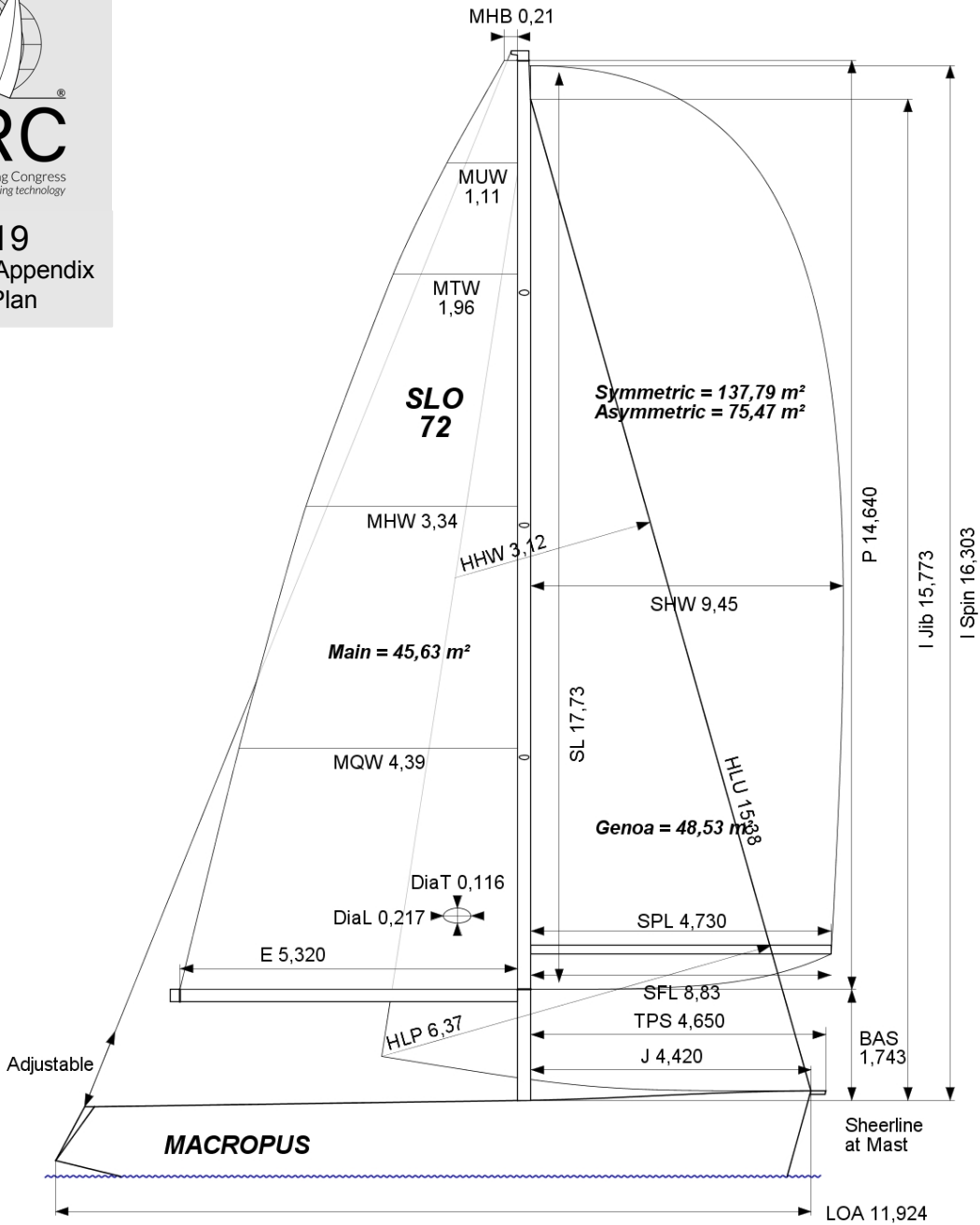
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
1	Tank Water		Fix	150.0	5.50		0-0
2	Tank Water		Fix	150.0	5.50		0-0
3	Tank Fuel		Flx	135.0	9.30		30-0
Id	Item	Weight	Distance	VCG Description			
1	Battery		7.30	3 pcs			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.21	1.11	1.96	3.34	4.39	45.64		03/05/2016	One Sails	Unknown	

HEADSAILS (5)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
6	0.10	0.79	1.55	3.12	4.72	6.37	15.38	144%	48.53				20/04/2017	One Sails	Unknown	Genoa 1 2017
5	0.07	0.60	1.19	2.33	3.45	4.52	15.40	102%	35.54	Y			20/04/2017	One Sails	Unknown	Jib 3 2017
1	0.08	0.61	1.20	2.33	3.42	4.55	14.77	103%	34.11				25/05/2015	One sails	Kevlar	
3	0.08					4.11	14.58	93%	30.49				23/08/2015	One sails	Dacron	Heavy
4						2.72	9.07	62%	12.56				23/08/2015	One sails	Dacron	Storm

SYMMETRIC SPINNAKERS (3)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
3	17.73	17.73	17.73	9.45	8.83	137.80		05/10/2016	One Sails	Nylon	
2	15.74	15.74	15.74	9.34	8.74	120.94		25/05/2015	One Sails	Nylon	
1	15.43	15.43	15.43	7.88	7.68	100.81		25/05/2015	One Sails	Nylon	

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1	15.91	14.83	15.37	5.53	7.34	75.47	asym		17/09/2015		Unknown	