

BOAT
Name HAWK Sail Nr PER 4698

GPH
537.9

HULL	Length Overall	14.270 m
	Maximum Beam	4.056 m
	Displacement	8,530 kg
	Draft	2.811 m
	IMS Reg. Division	Cruiser/Racer
	Dynamic Allowance	0.000%
	Fwd Accommodation	Yes
	Hull Construction	Cored
	Carbon Rudder	Yes
	Trim Tab	No
	IMS L	12.709
	VCGD	-0.157
	VCGM	-0.107
	Sink	28.20 kg/mm
	Wetted Area	36.99 m²



2010
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Certificate

GENERAL
Class SYDNEY 46
Designer MURRY/BURNS/DOVELL
Builder SYDNEY YACHTS, AUS
Series 06/1998
Age 06/1998
Age Allowance 0.780%
Offset File K19004m.off - 04/03/2001 05:25:18
Measurement by G Liza / L Yarlequ - 17/06/2010

SCORING OPTIONS	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	537.9			602.8		
Time On Time	1.1155			1.1198		
Performance Line	PLT	PLD		PLT	PLD	
	0.971	98.3		1.218	325.4	
Triple Number	Low	Medium	High	Low	Medium	High
	1.0927	1.4177	1.5979	0.8291	1.1302	1.3081

Rating Office

Roberto Peschiera
peschiera56@gmail.com
Asociación de Veleros
Oceánicos del Peru

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	894.2	725.3	652.6	615.3	594.2	590.2	592.3
52°	574.7	481.1	448.3	431.3	421.2	416.7	416.2
60°	534.3	460.8	430.0	415.3	406.2	400.4	397.8
75°	507.8	447.4	412.6	395.6	386.4	380.0	373.4
90°	511.9	442.9	410.1	392.0	373.3	363.6	352.7
110°	525.2	452.6	412.3	384.5	369.2	359.1	344.7
120°	558.7	471.5	427.9	396.7	370.4	348.8	325.6
135°	656.4	523.5	462.6	425.5	398.2	374.5	322.3
150°	792.4	625.2	524.8	468.8	432.5	405.8	363.3
Run VMG	915.0	721.9	606.0	536.8	486.9	449.9	399.0

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Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	921.1	736.5	639.2	583.1	547.6	526.0	499.3
Circular Random	742.6	598.9	521.8	476.9	449.2	431.0	408.4
Ocean for PCS	794.4	626.6	533.2	475.8	437.8	410.3	370.4
Non Spinnaker	796.2	637.2	550.4	498.8	466.3	444.9	418.1

Crew Weight	
Declared	788 kg
Default*	944 kg
Non Manual Power	No

Special Scoring	ToD	ToT
Double Handed	540.5	1.1102
Non Spinnaker	568.0	1.0563
N/S Perf. Line	65.4	0.862

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	44.3°	43.2°	39.5°	37.5°	36.7°	36.8°	37.2°
Beat VMG	4.03	4.96	5.52	5.85	6.06	6.10	6.08
52°	6.26	7.48	8.03	8.35	8.55	8.64	8.65
60°	6.74	7.81	8.37	8.67	8.86	8.99	9.05
75°	7.09	8.05	8.72	9.10	9.32	9.47	9.64
90°	7.03	8.13	8.78	9.18	9.65	9.90	10.21
110°	6.85	7.95	8.73	9.36	9.75	10.02	10.44
120°	6.44	7.64	8.41	9.08	9.72	10.32	11.06
135°	5.48	6.88	7.78	8.46	9.04	9.61	11.17
150°	4.54	5.76	6.86	7.68	8.32	8.87	9.91
Run VMG	3.93	4.99	5.94	6.71	7.39	8.00	9.02
Gybe Angles	140.8°	143.2°	148.8°	157.0°	164.6°	169.4°	173.1°

Sails Limitations	
Genoas	4
Jibs	3
Spinnakers	4
Spinnaker configuration	Symmetric

Storm Sails Areas	
Heavy Weather Jib	50.14
Storm Jib (JL=12.53)	18.57
Storm Trysail	18.25

Owner

Javier Arribas
Pedro Venturo 431, Aurora
Miraflores, Lima 18
Peru

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

Signature

BOAT	
Name HAWK	Sail Nr PER 4698
File PER4698.dxt	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 3
Inner Forestay None Fitted	Runners 2
Carbon Mast Yes	Jumpers None
Taper Hollows No	Jib Furler No
Fiber Rigging No	w/o Backstay No

P 17.043	E 6.120	MDT1 0.126	TL 0.715
IG 19.188	J 5.520	MDL1 0.249	MWT 243.00
ISP 19.125	SFJ 0.000	MDT2 0.107	MCG 6.125
SPS 2.960	SPL 5.525	MDL2 0.190	CPW 2.655
BAS 1.960	TPS	MW 0.211	BD 0.275
BAL 0.200	FSP 0.086	GO 0.235	BWT 40.00

MIZZEN RIG AND SAILS	
N/A	

COMMENTS	
Modified Keel 11/98	

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 18/06/2010		SG 1.0260
FFM 1.532	FF 1.532	SFFP 0.320
FAM 1.069	FA 1.069	SAFP 13.892
W1 130.00	PD1 444.5	WD 12.050
W2 130.00	PD2 444.5	GSA 1.0
W3 130.00	PD3 444.5	RSA 1.0
W4 130.00	PD4 444.5	PLM 9000.0
Maximum beam station from stern		9.048
RM Measured / Default		277.5 / 278.3
Limit of positive stability		122.6°
Stability Index		126.0
Freeboard at mast at 5.520		1.262

PROPELLER		
Installation Strut	PRD 0.450	
Type Folding	PBW 0.116	
Twin Screw No	PIPA 0.0038	
ST1 0.043	ST3 0.180	
ST2 0.181	ST4 0.113	
ST5 0.270	EDL 1.620	

WATER BALLAST	
N/A	

CENTERBOARD	
N/A	




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SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Area (r)	Formula
	0.175	1.21	2.22	3.88	5.13	27.60	61.29	62.49	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0.09	0.90	1.76	3.61	5.59	19.35	7.63	71.85	$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
Symmetric	SL	SMG	SF						
	18.93	9.65	10.00					153.33	$SL \cdot (SF + 4 \cdot SMG) / 6$

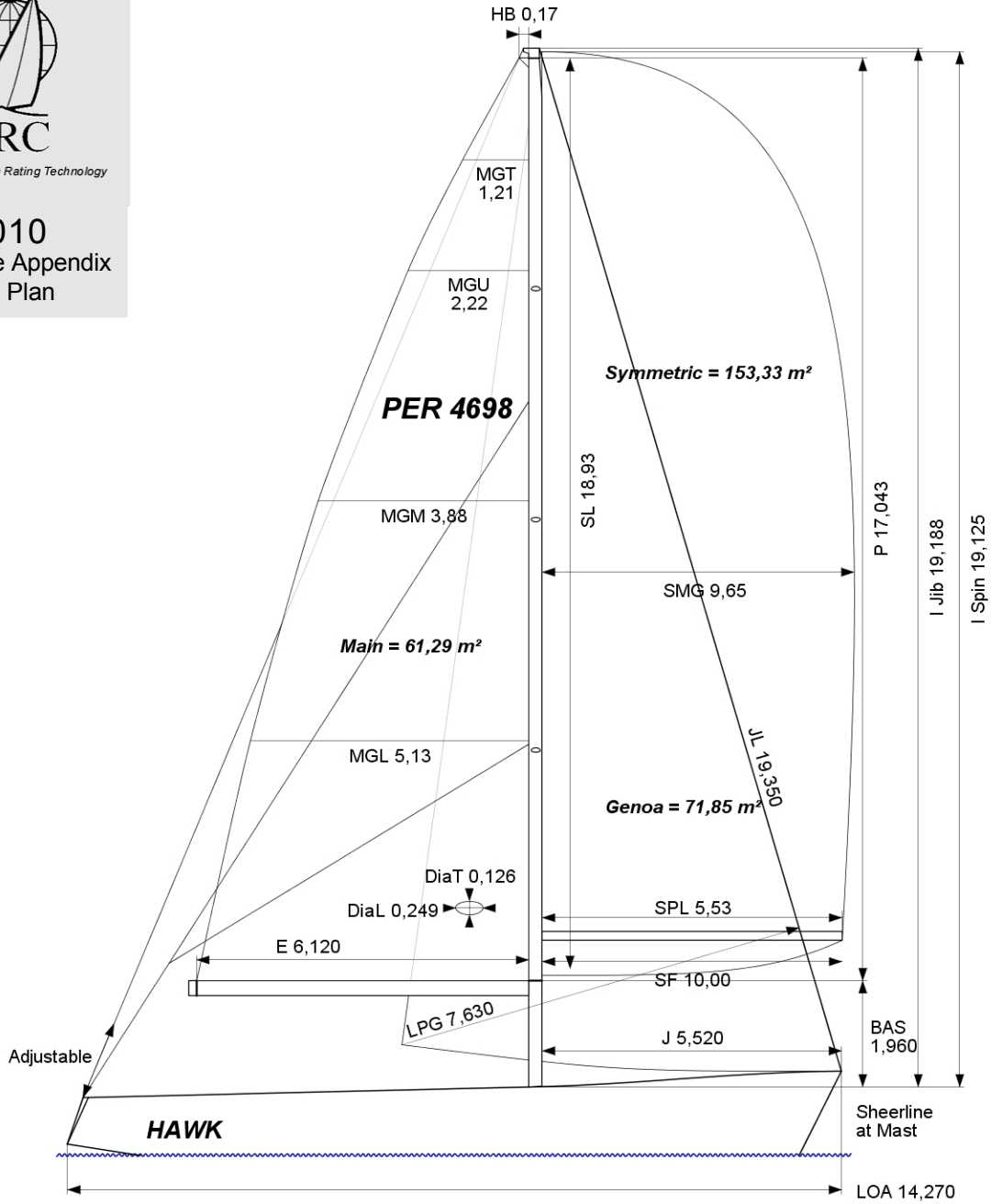
MEASUREMENT INVENTORY			
Measurer G LIZA			
Date 18/06/2010			
Comment			
Id	Item	Weight	Distanc Description
3.4	Anchor	10.0	6.07 a babor de crujía
Id	Item	Maker	Model
1.1	Engine	YANMAR	28HP
Id	Item	Weight	Description
3.11	Deck Gear	20.0	jgo escotas, maniv elas

MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capct	Dist.	Condt Description
2.3	Liquid Tank	PETROLEO	ACERO	130.0	10.02	12.0 CRUJIA POPA
2.2	Liquid Tank	AGUA	FLEXIBLE	50.0	6.32	0.0 A BABOR
2.1	Liquid Tank	AGUA	FLEXIBLE	50.0	6.32	0.0 A ESTRIBOR
Id	Item	Weight	Distanc	Description		
3.3	Ballast		6.33	corrector de plomo a popa pie mastil		
3.2	Ballast		6.07	corrector de plomo a popa pie mastil		
3.1	Ballast		5.88	corrector de plomo a popa pie mastil		
3.5	Battery	30.0	8.32	3 baterias a estribor bajo camilla		
3.9	Miscellaneous	7.0	8.72	REFRIGERADOR A BABOR		
3.7	Miscellaneous	3.0	8.70	LAVADERO A BABOR		
3.10	Miscellaneous	30.0	10.67	TERMA		
3.8	Miscellaneous	25.0	8.22	COCINA C/ HORNO A BABOR		



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Sail Plan



SAILS INVENTORY

MANSAIL

Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M1	0.175	1.21	2.22	3.88	5.13	27.60	61.29	G Liza / J Castro	17/06/2010	Quantum	Carbon	

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Overlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
J T	0.09	0.91	1.76	3.56	5.51	7.61	19.30	138%	71.07	G Liza	18/06/2010	Quantum	Carbon	
C1	0.09	0.90	1.76	3.61	5.59	7.63	19.35	138%	71.86	G Liza / J	17/06/2010	Quantum	Carbon	
C3	0.09	0.92	1.79	3.61	5.54	7.60	19.24	138%	71.28	G Liza / J	17/06/2010	Quantum	Carbon	

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S1	18.93	9.65	10.00	153.33	G Liza / J castro	17/06/2010	Quantum	Polyester	
S2	18.94	9.59	9.21	150.16	G Liza / J Castro	17/06/2010	North	Nylon	

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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