

BOAT
Name PESCADOR II Sail Nr PER 538

GPH
618.1

HULL					
Length Overall	12.060 m				
Maximum Beam	3.878 m				
Displacement	7,288 kg				
Draft	2.019 m				
IMS Reg. Division	Cruiser/Racer				
Dynamic Allowance	0.736%				
Fwd Accommodation	Yes				
Hull Construction	Solid				
Carbon Rudder	No				
Trim Tab	No				
IMS L	10.814	VCGD	0.154	VCGM	0.225
Sink	22.90 kg/mm	Wetted Area	29.35 m²		



2010
ORC International
Certificate

GENERAL
Class Dufour 40
Designer Felci
Builder Dufour
Series 01/2003
Age
Age Allowance 0.455%
Offset File PESCAD24.OFF - 16/08/2010 10:41:20
Measurement by G Liza / F Carlier - 17/06/2010

SCORING OPTIONS						
	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	618.1			701.1		
Time On Time	0.9706			0.9628		
Performance Line	PLT	PLD		PLT	PLD	
	0.823	84.7		0.954	263.2	
Triple Number	Low	Medium	High	Low	Medium	High
	0.9395	1.2381	1.4020	0.7102	0.9802	1.1485

Rating Office

Roberto Peschiera
peschiera56@gmail.com
Asociacion de Veleros
Oceánicos del Perú

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1084.8	893.4	784.3	735.5	707.2	690.0	692.2
52°	694.6	575.8	519.0	491.6	478.7	470.9	466.0
60°	646.1	543.4	494.6	468.6	457.6	450.7	444.3
75°	606.3	519.2	470.0	451.6	433.2	424.3	416.3
90°	580.2	496.1	456.0	434.1	425.1	418.3	396.1
110°	598.7	509.7	466.7	438.7	415.5	397.5	408.8
120°	639.1	531.6	480.1	449.5	425.4	404.1	367.5
135°	737.2	593.0	516.9	474.3	446.8	424.6	386.4
150°	883.7	695.3	582.9	517.4	476.9	450.0	409.5
Run VMG	1020.4	802.8	673.1	587.1	529.7	489.0	438.8

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VPP Ver.	2010 1.11
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Selected Courses							
Windward / Leeward	1072.5	860.1	740.4	669.9	625.8	596.5	572.6
Circular Random	859.5	690.7	599.3	545.6	512.5	491.6	468.5
Ocean for PCS	919.4	722.9	612.5	544.5	499.5	467.6	422.7
Non Spinnaker	925.4	736.7	632.9	570.9	532.1	507.0	477.8

Crew Weight	
Declared	700 kg
Default*	749 kg
Non Manual Power	No

Special Scoring		
	ToD	ToT
Double Handed	621.2	0.9659
Non Spinnaker	653.8	0.9177
N/S Perf. Line	51.0	0.729

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	44.8°	43.8°	42.9°	41.1°	40.2°	39.7°	41.3°
Beat VMG	3.32	4.03	4.59	4.89	5.09	5.22	5.20
52°	5.18	6.25	6.94	7.32	7.52	7.64	7.73
60°	5.57	6.62	7.28	7.68	7.87	7.99	8.10
75°	5.94	6.93	7.66	7.97	8.31	8.48	8.65
90°	6.20	7.26	7.89	8.29	8.47	8.61	9.09
110°	6.01	7.06	7.71	8.21	8.66	9.06	8.81
120°	5.63	6.77	7.50	8.01	8.46	8.91	9.80
135°	4.88	6.07	6.96	7.59	8.06	8.48	9.32
150°	4.07	5.18	6.18	6.96	7.55	8.00	8.79
Run VMG	3.53	4.48	5.35	6.13	6.80	7.36	8.20
Gybe Angles	142.4°	148.1°	150.6°	161.2°	168.1°	172.7°	175.4°

Sails Limitations		
Genoa	Jibs	Spinnakers
0	4	3
Spinnaker configuration Symmetric		

Storm Sails Areas	
Heavy Weather Jib	32.40
Storm Jib (JL=10.07)	12.00
Storm Triesail	14.18

Owner

German Fuchs
Paul Harris 297
Barranco, Lima
Peru

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

Signature

BOAT	
Name PESCADOR II	Sail Nr PER 538
File PER538.dxt	Data in meters/kilograms

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Forestay None Fitted	Runners 0		
Carbon Mast No	Jumpers None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	w/o Backstay No		
P 14.716	E 5.508	MDT1 0.120	TL 0.680
IG 15.380	J 4.170	MDL1 0.225	MWT
ISP 15.480	SFJ 0.190	MDT2 0.120	MCG
SPS 2.914	SPL 4.190	MDL2 0.184	CPW 2.428
BAS 1.769	TPS	MW 0.225	BD 0.162
BAL 0.085	FSP 0.076	GO 0.255	BWT

MIZZEN RIG AND SAILS	
N/A	

COMMENTS	
Cambio OFFSET medido 08/2010 Nueva genoa y spi	


INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 17/02/2010	SG 1.0260	
FFM 1.460	FF 1.460	SFFP 0.119
FAM 1.171	FA 1.171	SAFP 11.427
W1 95.000	PD1 537.9	WD 11.740
W2 95.000	PD2 537.9	GSA 1.0
W3 95.000	PD3 537.9	RSA 1.0
W4 95.000	PD4 537.9	PLM 9000.0
Maximum beam station from stem		7.750
RM Measured / Default		163.3 / 179.8
Limit of positive stability		110.0°
Stability Index		112.0
Freeboard at mast at 4.360		1.296

PROPELLER		
Installation Strut	PRD 0.438	
Type Folding	PBW 0.107	
Twin Screw No	PIPA 0.0039	
ST1 0.066	ST3 0.178	ST5 0.303
ST2 0.183	ST4 0.112	EDL 2.780

WATER BALLAST	
N/A	


CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Area (r)	Formula
	0.180	1.14	2.04	3.51	4.58	22.50	47.79	48.84	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0.02	0.68	1.29	2.43	3.49	15.22	4.57	36.07	$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
Symmetric	SL	SMG	SF						
	15.16	7.51	7.32					94.40	$SL \cdot (SF + 4 \cdot SMG) / 6$



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IMS Measurement
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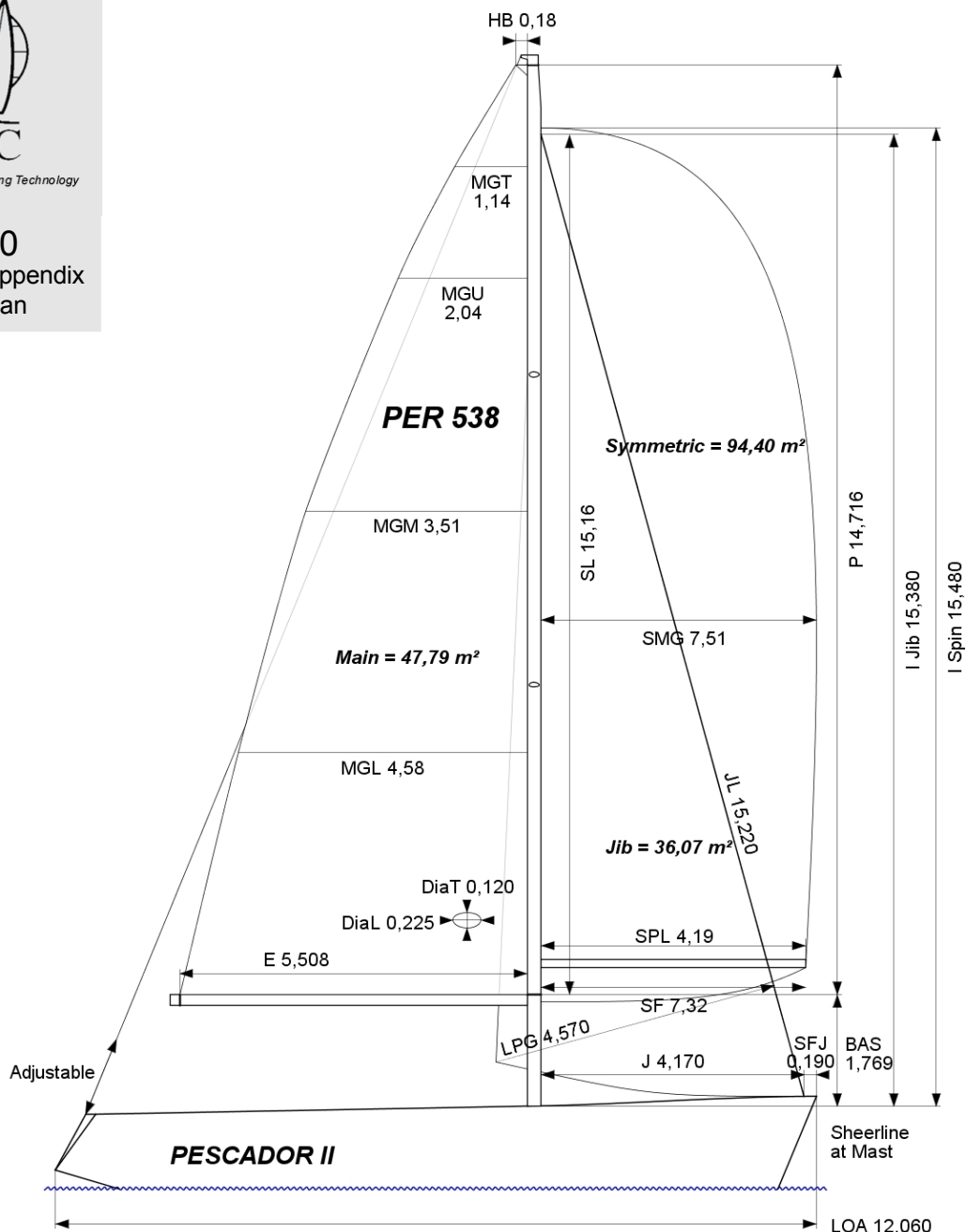


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Certificate Appendix
Sail Plan



SAILS INVENTORY													
MAINSAIL													
Id	HB	MGT	MGU	MGM	MGL	MSW	Area		Meas.Date	Manufacture	Material	Comment	
May 1	0.180	1.14	2.04	3.51	4.58	22.50	47.79	G Liza / L Yarle	01/06/2010	Quantum	Kevlar	* Copied from legacy	
JIBS / GENOAS													
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Meas.Date	Manufacture	Material	Comment
C2	0.02	0.68	1.29	2.43	3.49	4.57	15.22	110%	36.07	01/12/2010	Quantum	Carbon	
C1	0.09	0.64	1.21	2.33	3.42	4.54	15.15	109%	35.04	14/06/2010	Quantum	Kevlar	
C4	0.09	0.50	0.93	1.85	2.81	3.78	14.23	91%	26.77	14/06/2010	Quantum	Kevlar	
GL	0.08	0.66	1.24	2.35	3.45	4.45	15.16	107%	35.12	14/06/2010	Quantum	Kevlar	
SYMMETRIC SPINNAKERS													
Id	SL	SMG	SF	Area		Meas.Date	Manufacture	Material	Comment				
S2	15.16	7.51	7.32	94.40		01/12/2010	Quantum	Polyester					
COD 0	15.91	6.78	7.20	91.01		14/06/2010	G Liza / L Yar	Polyester					
SP1	15.19	7.43	7.31	93.75		14/06/2010	G Liza L Yar	Polyester					
ASYMMETRIC SPINNAKERS													
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment	