

BOAT Name ALWAYS Sail Nr ESP-8856	GPH 697,3	HULL Length Overall 11,230m Maximum Beam 3,830m Displacement 6.042kg Draft 1,843m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,391% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class SUN ODYSSEY 37.1 Designer FAUROUX JACQUES Builder JEANNEAU Series 10/1999 Age 03/2000 Age Allowance 0,487% Offset File SODYS37.off - 18/02/2016 19:26:04 Measurement by JJBELTRAN - 13/10/2010		IMSL 9,890m VCGD 0,054m Sink 20,65kg/mm RL 6,145m VCGM 0,143m WS 27,35m² LSM0 9,917m Displacement/Length ratio 6,1950



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2017
ORC International
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SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Time On Distance	674,0			758,3	
Time On Time	0,8902			0,8901		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	837,9	609,3	519,9	1097,2	770,5	630,3
Time on Time	0,8056	1,1078	1,2983	0,6152	0,8761	1,0709

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	1333,1	1075,7	939,0	851,8	786,0	747,6	732,0
52°	849,1	695,5	610,1	554,6	522,7	506,1	497,0
60°	788,0	652,4	572,8	527,5	504,0	490,4	478,9
75°	740,3	616,9	544,2	508,7	489,9	475,8	453,6
90°	730,8	593,5	519,0	489,0	478,6	470,8	446,4
110°	703,7	572,5	507,8	479,3	456,7	438,5	419,9
120°	728,7	585,9	514,3	483,3	460,6	437,5	402,1
135°	811,6	645,2	544,6	499,8	475,4	453,7	411,4
150°	963,5	751,3	619,8	541,4	500,4	477,6	437,4
Run VMG	1112,6	867,5	715,6	620,2	560,8	515,4	468,8

Certificate
Number **885601**
ORC Ref **ESP00021448**
Issued On **13/02/2017**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Crew Weight
Declared **540kg**
Default* **680kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	697,8	0,8598
Double H.OSN	674,6	0,8894
Non Spin GPH	747,3	0,8029
Non Spin OSN	719,1	0,8344

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1222,8	971,6	827,3	736,0	673,4	631,5	600,4
Circular Random	994,7	788,9	674,7	605,8	562,0	533,3	500,3
Ocean for PCS	1224,0	929,3	760,0	654,5	585,2	537,5	474,8
Non Spinnaker	1081,0	851,5	722,4	643,1	592,0	558,1	519,0

Sails Limitations

Headsails	Spinnakers
5	3

Dacron Sails

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	45,4°	44,1°	43,4°	43,6°	43,2°	42,0°	41,6°
Beat VMG	2,70	3,35	3,83	4,23	4,58	4,82	4,92
52°	4,24	5,18	5,90	6,49	6,89	7,11	7,24
60°	4,57	5,52	6,28	6,82	7,14	7,34	7,52
75°	4,86	5,84	6,62	7,08	7,35	7,57	7,94
90°	4,93	6,07	6,94	7,36	7,52	7,65	8,06
110°	5,12	6,29	7,09	7,51	7,88	8,21	8,57
120°	4,94	6,14	7,00	7,45	7,82	8,23	8,95
135°	4,44	5,58	6,61	7,20	7,57	7,93	8,75
150°	3,74	4,79	5,81	6,65	7,19	7,54	8,23
Run VMG	3,24	4,15	5,03	5,80	6,42	6,98	7,68
Gybe Angles	146,8°	149,8°	148,4°	153,8°	165,8°	179,8°	180,0°

Class Division Length
CDL = **8,018**

Storm Sails Areas


Heavy Weather Jib	25,54
Storm Jib (JL=8,94)	9,46
Storm Trysail	8,42

Owner

BOAT	
Name ALWAYS	Sail Nr ESP-8856
File E8856	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 11/10/2010		SG 1,0270	
FFM 1,250	FF 1,305	SFFP 0,740	
FAM 1,130	FA 1,104	SAFP 10,370	
W1 74,4	PD1 490,5	WD 12,250	
W2 74,4	PD2 491,4	GSA 1,0	
W3 74,4	PD3 491,4	RSA 1,0	
W4 74,4	PD4 491,7	PLM 9000,0	
LCF from stem on CL / on sheer		6,444 / 6,714	
Maximum beam station from stem		7,294	
RM Measured		146,1kg·m	
RM Default		133,4kg·m	
Limit of positive stability / Stab.Index		110,3° / 109,5	
Freeboard at mast at 4,000		1,191	

RIG			
Forestay Tension Fixed	Spreaders 2		
Inner Stay Fixed	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler Yes		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 11,600	E 4,150	MDT1 0,200	MW 0,200
IG 13,650	J 4,000	MDL1 0,210	GO 0,230
ISP 13,700	SFJ 0,000	MDT2 0,200	BD 0,145
BAS 1,690	SPL 3,733	MDL2 0,130	MWT
FSP 0,070	TPS	TL 0,600	MCG



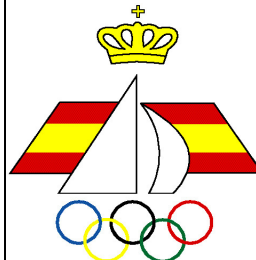
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IMS Measurement Certificate

Certificate

Number **885601**
 ORC Ref **ESP00021448**
 Issued On **13/02/2017**
 VPP Ver. **2017 1.00**
 Valid until **31/12/2017**



MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0,330		
Type Feathering 2 blades	PBW 0,132		
Twin Screw No	PIPA 0,0079		
PSA 23,400	PHL 0,088	ST3 0,093	ESL 0,900
PSD 0,025	ST1 0,022	ST4 0,052	
PHD 0,097	ST2 0,077	ST5 0,330	

COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area
	0,000	0,54	1,03	2,05	2,93	23,63
	Formula					$P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$
Symmetric	SLU	SLE	SL	SHW	SFL	Area
	14,52	14,52	14,52	8,24	8,08	99,32
	Formula					$SL \cdot (SFL + 4 \cdot SHW) / 6$
Asymmetric	Not Available					

HEADSAILS												
Area = $0.1125 \cdot HLU \cdot (1.445 \cdot HLP + 2 \cdot HQW + 2 \cdot HHW + 1.5 \cdot HTW + HUW + 0.5 \cdot HHB)$												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0,07	0,61	1,15	2,35	3,51	5,10	13,45	32,47			04/02/2016	Dacron	

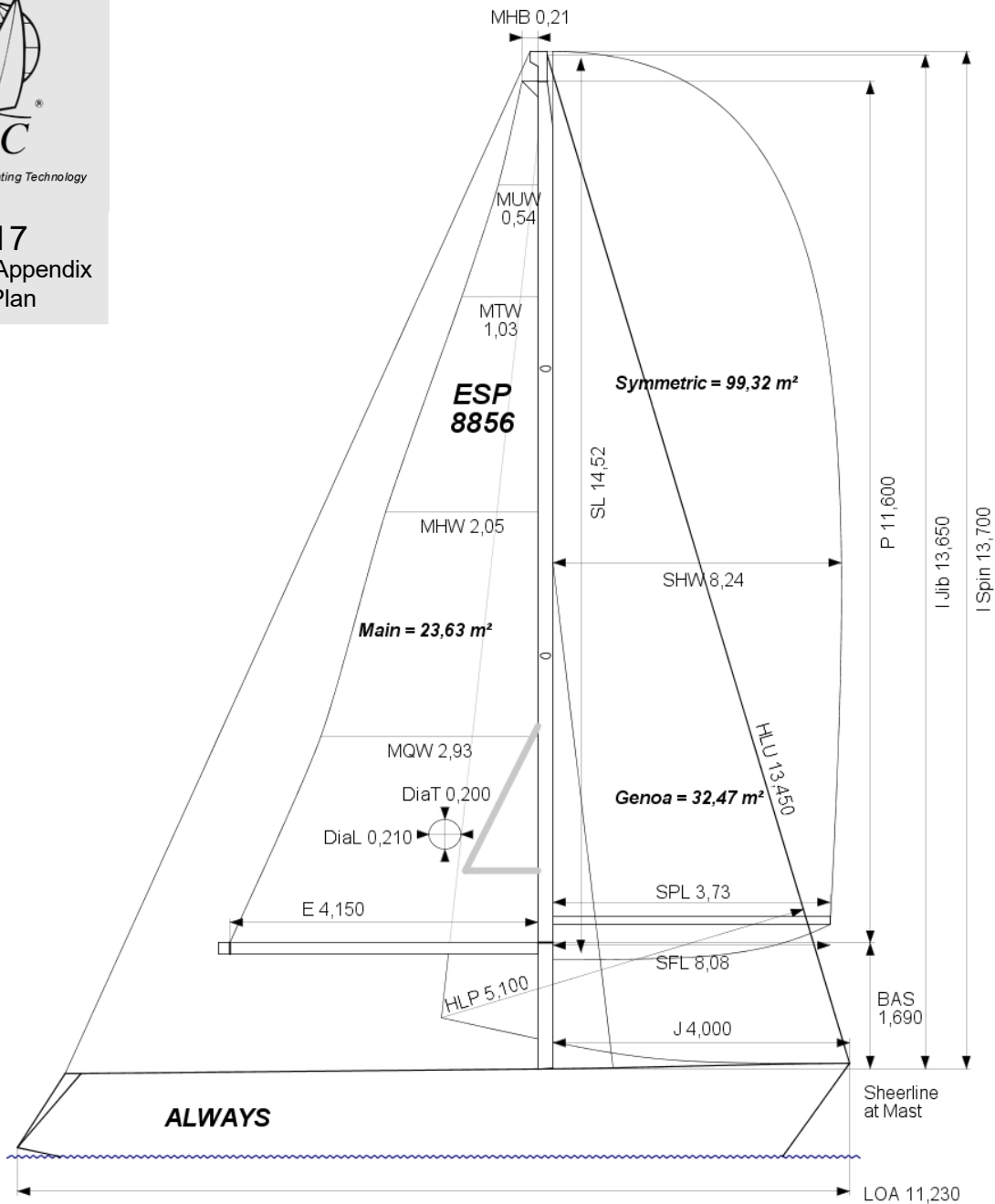
MEASUREMENT INVENTORY				
Measurer JJBELTRAN				
Date 11/10/2010				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
0R	Anchor	22,5	0,50	ANCLA
4	Chain	120,0	0,50	CADENA
4	Tools	40,0	5,50	
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	YANNMAR	3GM30F	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	

MEASUREMENT INVENTORY								
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>
1	Tank	GAS	FIBER	130,0	8,50			
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				
1	Battery	80,0	8,50	4 BATERIAS DE 20 KILOS				



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	0,000	0,54	1,03	2,05	2,93	23,63				Dacron	* Copied from legacy					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
001	0,07	0,61	1,15	2,35	3,51	5,10	13,45	127%	32,47			BELTRAN	04/02/2016		Dacron	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
001	14,52	14,52	14,52	8,24	8,08	99,32	BELTRAN	04/02/2016		Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				