

BOAT Name ALWAYS Sail Nr ESP-8856	GPH 701,1	HULL Length Overall 11,230m Maximum Beam 3,830m Displacement 5.946kg Draft 1,839m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,418% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class SUN ODYSSEY 37.1 Designer Builder JEANNEAU Series 10/1999 Age 03/2000 Age Allowance 0,488% Offset File SODYS371.OFF - 23/04/1998 19:32:00 Measurement by JJBELTRAN - 13/10/2010		IMSL 9,872m VCGD 0,034m Sink 20,52kg/mm RL 6,269m VCGM 0,128m WS 28,05m² LSM0 9,894m Displacement/Length ratio 6,1392



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2016
ORC International
Certificate

Rating Office
R.F.E.V.
Luis de salazar,9
28002 Madrid



SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	677,5			763,2		
Time On Time	0,8856			0,8844		
Performance Line	0,767	81,3		0,599	85,4	
Triple Number	Low 0,7983	Medium 1,1032	High 1,2959	Low 0,6091	Medium 0,8709	High 1,0657

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	1333,5	1074,5	934,7	843,3	778,0	747,4	733,4
52°	844,1	689,8	603,5	547,3	516,4	502,2	495,2
60°	778,6	643,6	564,3	520,3	498,0	485,5	476,7
75°	727,0	605,2	534,7	501,5	483,3	469,5	448,8
90°	730,4	606,1	526,7	491,8	477,0	468,1	442,4
110°	724,6	588,2	516,0	484,9	462,6	441,4	418,2
120°	747,0	603,4	524,3	489,4	466,9	444,7	404,4
135°	837,4	662,9	559,7	508,0	481,8	460,7	418,8
150°	987,1	766,7	635,3	554,6	508,1	483,7	444,2
Run VMG	1139,8	885,3	733,6	636,1	572,0	523,3	474,1

Certificate
Number **885601**
ORC Ref **ESP00015917**
Issued On **04/02/2016**
VPP Ver. **2016 1.00**
Valid until **31/12/2016**

Crew Weight
Declared **540kg**
Default* **678kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	701,8	0,8550
Double H.OSN	678,2	0,8847
Non Spin GPH	740,5	0,8103
Non Spin OSN	713,5	0,8410
N/S Perf. Line	20,1	0,616

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1236,6	979,9	834,2	739,7	675,0	635,4	603,7
Circular Random	1002,5	794,2	678,3	608,1	563,6	534,6	501,1
Ocean for PCS	986,7	771,4	650,0	576,0	529,0	497,4	455,8
Non Spinnaker	1070,9	843,4	715,7	637,5	587,4	554,5	516,4

Sails Limitations

Headsails	Spinnakers
5	3

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	46,2°	44,9°	44,1°	44,2°	43,3°	42,4°	41,9°
Beat VMG	2,70	3,35	3,85	4,27	4,63	4,82	4,91
52°	4,27	5,22	5,97	6,58	6,97	7,17	7,27
60°	4,62	5,59	6,38	6,92	7,23	7,41	7,55
75°	4,95	5,95	6,73	7,18	7,45	7,67	8,02
90°	4,93	5,94	6,83	7,32	7,55	7,69	8,14
110°	4,97	6,12	6,98	7,42	7,78	8,16	8,61
120°	4,82	5,97	6,87	7,36	7,71	8,10	8,90
135°	4,30	5,43	6,43	7,09	7,47	7,81	8,60
150°	3,65	4,70	5,67	6,49	7,08	7,44	8,10
Run VMG	3,16	4,07	4,91	5,66	6,29	6,88	7,59
Gybe Angles	146,9°	149,8°	149,9°	153,7°	164,4°	179,5°	180,0°

Class Division Length
CDL = **8,071**

Storm Sails Areas

Heavy Weather Jib	24,06
Storm Jib (JL=8,68)	8,91
Storm Trysail	8,42

Owner

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

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 11/10/2010	SG 1,0260	
FFM 1,255	FF 1,311	SFFP 0,740
FAM 1,134	FA 1,108	SAFP 10,370
W1 74,400	PD1 490,5	WD 12,250
W2 74,400	PD2 491,4	GSA 1,0
W3 74,400	PD3 491,4	RSA 1,0
W4 74,400	PD4 491,7	PLM 9000,0
LCF from stem on CL / on sheer		6,442 / 6,712
Maximum beam station from stem		7,294
RM Measured		146,1kg·m
RM Default		133,4kg·m
Limit of positive stability / Stab.Index		111,2° / 110,1
Freeboard at mast at 4,000		1,196

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 13,250	J 4,000	MDL1 0,210	GO 0,230
ISP 13,270	SFJ 0,000	MDT2 0,200	BD 0,145
BAS 1,690	SPL 3,733	MDL2 0,130	MWT
FSP 0,070	TPS	TL	MCG



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2016 Measurements Datasheet

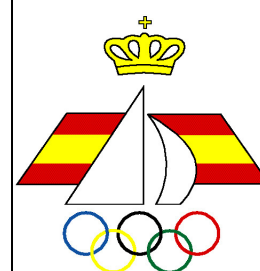
MIZZEN RIG AND SAILS	
N/A	

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	

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 VPP Ver. **2016 1.00**
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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
	14,01	14,01	14,01	7,57	7,20	87,52
	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
0,00	0,66	1,25	2,52	3,92	5,22	13,90	35,98	N			Unknow	

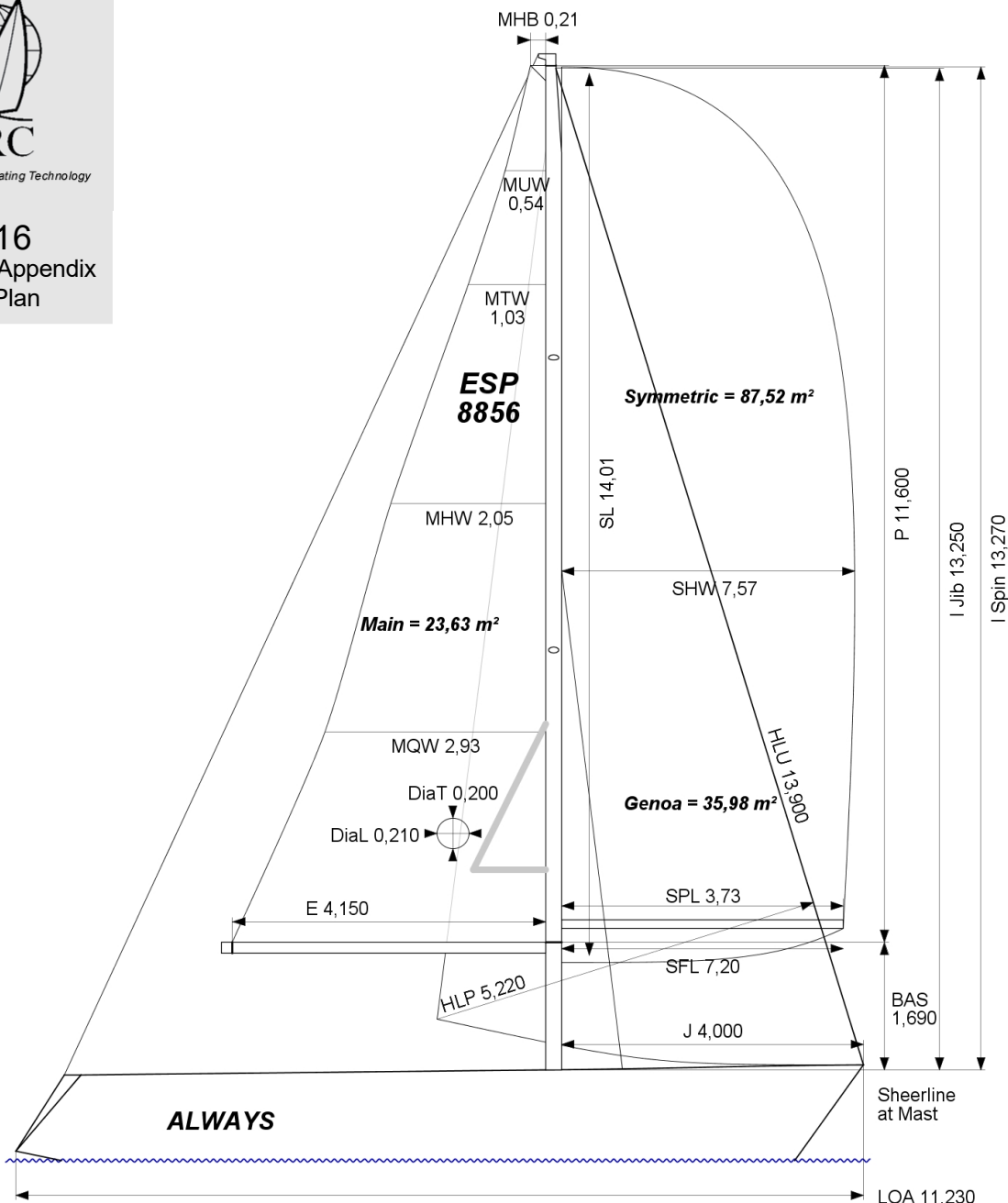
MEASUREMENT INVENTORY				
Measurer JJBELTRAN				
Date 11/10/2010				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
0R	Anchor	22,5	0,50	ANCLA
4	Chain	120,0	0,50	CADENA
4	Tools	40,0	5,50	
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	YANNMAR	3GM30F	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

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					* Copied from legacy

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
ORC1	0,00	0,66	1,25	2,52	3,92	5,22	13,90	130%	35,98		N	JJBELTR				Unknow

SYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	14,01	14,01	14,01	7,57	7,20	87,52	JJBELTRAN				

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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