

APH: **539.7** CDL: **8.978**

GPH: **605.9** CertNo:

BOAT

Class **SUN FAST 3300**
Designer **ANDRIEU - VERDIER**
Builder **JEANNEAU**
Age date **05/2020**
Series date **04/2019**
Offset file **SF3300.off**
Data file **PER3301**

HULL

Length Overall **9.990 m**
Maximum Beam **3.408 m**
Draft **1.952 m**
Displacement **3,698 kg**
DLR **5.4879**
IMS Division **Performance**
Dynamic Allowance **0.000%**
Age Allowance **0.098%**

PROPELLER

Installation **Shaft non exposed**
Type **Folding 2 blades**
Diameter **0.338m**

CREW

Maximum weight **460 kg**
Minimum weight **345 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	36.10	37.30
Headsail Luffed	28.43	28.43
Headsail Flying		
Symmetric		
Asymmetric	107.56	107.56

(All asymmetric spinnakers with SHW/SFL > 85%)

STORM SAIL AREAS (m²)

Trysail **9.17**
Storm Jib **7.76**
Heavy Weather Jib **20.96**

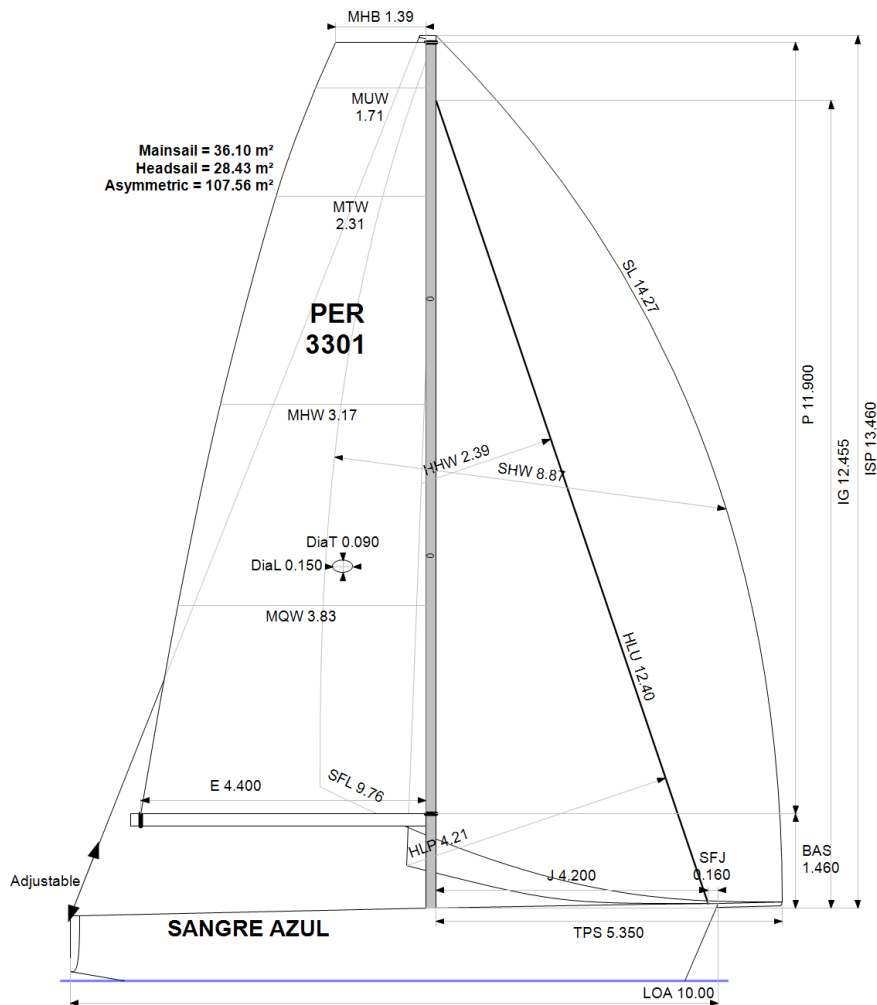
SAIL LIMITS

Headsails **5**
Spinnakers **4**

STABILITY

Righting Moment **112.5 kg·m**
Stability Index **105.3**

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.



Rated boat velocities in knots

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.6°	41.8°	40.6°	40.0°	39.6°	39.4°	39.4°
Beat VMG	3.45	4.22	4.78	5.03	5.15	5.20	5.28
52°	5.31	6.34	6.97	7.24	7.34	7.39	7.53
60°	5.64	6.63	7.17	7.45	7.59	7.67	7.83
75°	5.91	6.84	7.32	7.69	8.01	8.19	8.35
90°	5.85	6.96	7.41	7.72	8.16	8.57	9.06
110°	5.98	7.11	7.72	8.26	8.61	8.94	9.56
120°	5.85	7.03	7.65	8.30	8.96	9.43	10.27
135°	5.19	6.55	7.35	7.93	8.57	9.34	11.35
150°	4.40	5.57	6.62	7.32	7.73	8.16	9.62
Run VMG	3.81	4.83	5.74	6.34	6.70	7.14	8.33
Gybe Angles	144.2°	147.4°	147.8°	151.0°	148.4°	174.8°	142.3°



International
Certificate
2022

Boat
SANGRE AZUL
PER3301

Asociacion de Vela Oceanica
del Peru - AVOP
Roberto Peschiera - Rating Officer
peschiera56@gmail.com



Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1044.8	853.5	753.9	715.0	699.2	692.4	681.5
52°	678.2	568.1	516.3	497.5	490.7	487.2	477.9
60°	638.5	543.2	502.2	482.9	474.1	469.2	459.5
75°	609.6	526.3	492.0	468.4	449.4	439.5	431.0
90°	615.9	517.3	485.7	466.0	441.4	420.2	397.4
110°	601.7	506.6	466.4	435.7	418.1	402.7	376.7
120°	614.9	512.3	470.4	433.5	401.9	381.8	350.6
135°	693.3	549.5	489.6	454.1	420.2	385.6	317.2
150°	818.3	645.9	543.6	492.1	465.6	441.4	374.4
Run VMG	944.9	745.8	627.7	567.6	537.7	504.4	432.3
Selected Courses							
Windward / Leeward	994.9	799.6	690.8	641.3	618.4	598.4	556.9
All purpose	763.0	624.7	556.3	521.8	500.9	484.5	453.2

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	671.6	0.8934
All purpose	539.7	1.1117



Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	SUN FAST 3300	LOA	9.990	VCGD	0.003
Measurement	03/05/2021	Max. Beam	3.408	VCGM	0.115
HIN		Draft	1.952	RM Measured (kg·m)	112.5
Plan review		Displacement	3.698	RM Default (kg·m)	105.2
Hull construction	Cored	Wetted area	21.27	Limit of positive stability(°)	110.3
Aramid Hull Core	No	IMS L	9.232	Stability Index	105.3
Carbon Rudder	No	LSM0	8.766		
Light stanchions	No	Acc. length	10.000		
Trim tab	No	Sink (kg/mm)	18.02		

PROPELLER

Propeller Type	Folding 2 blades						
Installation	Shaft non exposed	PRD	0.338	PSD	0.025	PSA	
Twin screw	No	PBW	0.090	PHD	0.062	ESL	1.050
Hydro generator	No	PIPA	0.0030	PHL	0.110		

RIG

Forestay tension	Aft	P	11.900	E	4.400
Inner stay	None Fitted	IG	12.455	J	4.200
Carbon mast	Yes	ISP	13.460	BAS	1.460
Headsail furler	No	MDT1	0.090	FSD	0.070
Mainsail furler	No	MDL1	0.150	SFJ	0.160
Articulated bowsprit	No	MDT2	0.090	SPL	
Non-circular rigging	No	MDL2	0.150	WPL	
Fiber rigging	No	TL	1.000	TPS	5.350
Runners/Checkstays	0	MW	0.150	BD	0.190
Spreaders	2	GO	0.151	MWT	
				MCG	

FLOTATION AND STABILITY

Calculation method	Poles inclining	SFFP	0.520	SAFP	9.975	W1	70.0	PD1	563.6	WD	11.630
Flotation Date	24/05/2021	FFM	1.110	FAM	0.213	W2	70.0	PD2	560.7	PLM	9000.00
Measurer		FF	1.108	FA	0.217	W3	70.0	PD3	579.3	GSA	1.0
Comment		LCFcl	5.441	LCFsh	5.671	W4	70.0	PD4	576.5	RSA	1.0
		SG	1.0253	HBI	1.116						

INVENTORY

TANKS	<i>Id</i>	<i>Description</i>	<i>Sp.Wght</i>	<i>Capacity</i>	<i>Condition</i>	<i>LCG</i>	<i>VCG</i>
	C4	petro PVC en crijia a poap motor	0.9000	50	25	7.50	0.00
	E8	agua Bladder estribor		100	0	3.95	0.00
	C10	aguas servidas PVC en crijia a proa		80	0	1.60	0.20
				<i>Total deductible</i>	23	7.50	0.00
OTHER ITEMS	<i>Id</i>	<i>Kind</i>	<i>Description</i>	<i>Weight</i>	<i>LCG</i>	<i>VCG</i>	
	B2	Miscellaneous	tanque butano en popa a babor	2	7.00	0.00	
	E4	Battery	bateria de 24 placas	20	6.90	0.00	
	B4	Battery	bateria de 12 placas	10	6.90	0.00	
	C5	Engine	Yanmar 2YM15 15 HP				
				<i>Total deductible</i>	0		



MAINSAIL

<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
Square top	1.39	1.71	2.31	3.17	3.83	36.10	20/05/2021	North	Carbon	3DI

HEADSAIL

<i>Id</i>	<i>HHB</i>	<i>HUW</i>	<i>HTW</i>	<i>HHW</i>	<i>HQW</i>	<i>HLP</i>	<i>HLU</i>	<i>Btn</i>	<i>Flying</i>	<i>FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
JL1	0.12	0.78	1.40	2.39	3.29	4.21	12.40	Yes	No		28.43	20/05/2021	North	Carbon	3DI
JM1	0.12	0.76	1.42	2.46	3.35	4.20	12.23	Yes	No		28.39	20/05/2021	North	Carbon	3DI
SS1	0.05	0.41	0.79	1.57	2.38	3.22	12.06	No	No		19.23	20/05/2021	North	Carbon	

ASYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Ratio</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
A1.5	15.30	13.23	14.27	8.87	9.76	91%	107.56	20/05/2021	NORTH	Nylon	BLANCO
A2	15.32	12.66	13.99	9.07	9.08	100%	105.76	20/05/2021	NORTH	Nylon	AZUL
A3	14.90	12.72	13.81	7.44	8.54	87%	88.15	02/07/2021	NORTH	Nylon	ROJO