

BOAT Name NANUQ Sail Nr USA93555	GPH 612.7	HULL Length Overall 12.985m Maximum Beam 4.078m Displacement 10,959kg Draft 2.149m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.225% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Crew Arm Extension
GENERAL Class SABRE 426 Designer SABRE Builder SABRE Series 12/2002 Age 12/2002 Age Allowance 0.487% Offset File NANUQ.OFF - 18/06/2013 12:39:32 Measurement by GLOVER - 07/04/2013		IMSL 11.447m VCGD 0.150m Sink 26.97kg/mm RL 8.677m VCGM 0.104m WS 37.91m² LSMO 11.629m Displacement/Length ratio 6.9686



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	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	596.0			668.7		
Time On Time	1.0067			1.0094		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	712.8	540.5	475.2	930.5	677.4	570.8
Time on Time	0.9470	1.2489	1.4204	0.7254	0.9964	1.1825

Wind Velocity	TIME ALLOWANCES						
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1056.7	877.6	777.3	716.8	683.7	665.6	651.8
52°	678.6	571.0	506.3	478.7	467.8	462.0	456.8
60°	634.5	535.1	483.6	463.1	453.8	448.5	443.4
75°	597.8	506.3	468.5	450.8	438.9	430.0	421.5
90°	596.3	504.7	466.6	448.5	435.0	422.9	402.9
110°	641.6	526.0	470.4	446.1	428.5	414.5	398.9
120°	663.2	542.8	477.7	450.6	431.8	413.2	385.1
135°	732.9	593.3	508.9	466.8	445.3	427.6	391.9
150°	866.3	682.1	577.0	507.1	467.8	447.2	413.8
Run VMG	1000.3	787.7	666.0	581.7	525.0	481.9	439.2

Certificate

Number **US6183**
ORC Ref **USA0000947**
Issued On **03/05/2017**
VPP Ver. **2017 1.00**
Valid until **28/02/2018**

Crew Weight

Declared **854kg**
Default* **854kg**
Non Manual Pwr

Special Scoring

ToD ToT
Non Spin GPH **634.9 0.9450**
Non Spin OSN **618.2 0.9705**

Selected Courses							
Windward / Leeward	1028.5	832.7	721.6	649.3	604.4	573.8	545.5
Circular Random	852.7	685.1	594.1	540.4	507.0	485.4	459.8
Ocean for PCS	1052.6	808.5	669.8	584.3	528.7	490.4	439.2
Non Spinnaker	891.9	713.2	615.2	556.6	519.8	495.7	466.2

Sails Limitations	
Headsails	Spinnakers
1	4

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	45.0°	43.4°	43.8°	43.1°	41.5°	40.4°	40.1°
Beat VMG	3.41	4.10	4.63	5.02	5.27	5.41	5.52
52°	5.30	6.30	7.11	7.52	7.70	7.79	7.88
60°	5.67	6.73	7.44	7.77	7.93	8.03	8.12
75°	6.02	7.11	7.68	7.99	8.20	8.37	8.54
90°	6.04	7.13	7.72	8.03	8.28	8.51	8.93
110°	5.61	6.84	7.65	8.07	8.40	8.69	9.03
120°	5.43	6.63	7.54	7.99	8.34	8.71	9.35
135°	4.91	6.07	7.07	7.71	8.09	8.42	9.19
150°	4.16	5.28	6.24	7.10	7.70	8.05	8.70
Run VMG	3.60	4.57	5.41	6.19	6.86	7.47	8.20
Gybe Angles	145.2°	149.6°	151.5°	153.4°	162.6°	180.0°	180.0°

Class Division Length
CDL = **10.063**

Storm Sails Areas

Heavy Weather Jib **40.82**
Storm Jib (JL=11.30) **15.12**
Storm Triesail **14.10**

Owner

BOAT	
Name NANUQ	Sail Nr USA93555
File US6183	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 07/04/2013		SG 1.0050	
FFM 1.314	FF 1.324	SFFP 0.914	
FAM 1.079	FA 1.085	SAFP 12.091	
W1 114.3	PD1 230.0	WD 13.204	
W2 114.3	PD2 230.0	GSA 0.5	
W3 114.3	PD3 230.0	RSA 124.4	
W4 114.3	PD4 230.0	PLM 2024.0	
LCF from stem on CL / on sheer		7.163 / 7.424	
Maximum beam station from stem		7.789	
RM Measured		231.5kg·m	
RM Default		252.3kg·m	
Limit of positive stability / Stab.Index		110.9° / 117.5	
Freeboard at mast at 5.093		1.202	

RIG			
Forestay Tension Aft	Spreaders 3		
Inner Stay Fixed	Runners 1		
Carbon Mast	Jumper Struts None		
Taper Hollows	Jib Furler Yes		
Fiber Rigging	Main Furler		
Lenticular Rigging	Without Backstay		
Articulated Bowsprit No			
P 15.109	E 5.334	MDT1 0.131	MW 0.232
IG 17.246	J 5.087	MDL1 0.241	GO 0.274
ISP 17.331	SFJ 0.006	MDT2 0.131	BD 0.204
BAS 1.743	SPL 5.041	MDL2 0.241	MWT
FSP 0.061	TPS	TL 0.000	MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.479		
Type Feathering 3 blades	PBW 0.152		
Twin Screw	PIPA 0.0073		
PSA 20.500	PHL 0.143	ST3 0.143	ESL 1.000
PSD 0.034	ST1 0.021	ST4 0.070	
PHD 0.079	ST2 0.134	ST5 0.219	

COMMENTS	
686048W	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	
	0.100	1.11	2.00	3.43	4.45	
						Area Area (r) Formula
						47.70 48.67 $P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$
Symmetric	SLU	SLE	SL	SHW	SFL	
	17.04	17.04	17.04	9.12	8.69	
						Area Area (r) Formula
						128.28 $SL \cdot (SFL + 4 \cdot SHW) / 6$
Asymmetric	SLU	SLE	SL	SHW	SFL	
	18.26	16.42	17.34	8.05	8.84	
						Area Area (r) Formula
						118.61 $AS \cdot (SFL + 4 \cdot SHW) / 6$

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.07	0.95	1.86	3.80	5.82	7.85	17.33	66.99				Unknow	



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IMS Measurement Certificate

Certificate

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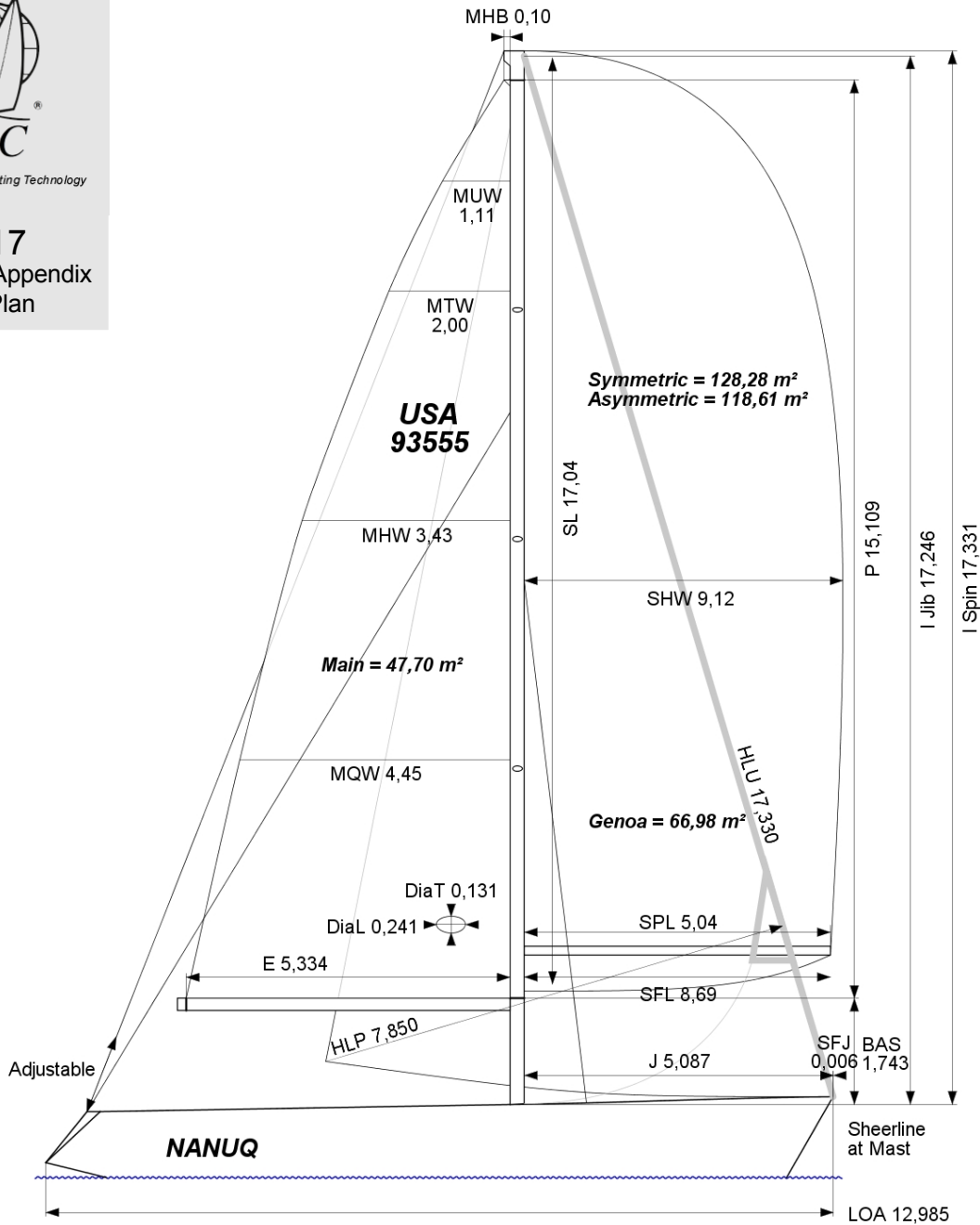


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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.100	1.11	2.00	3.43	4.45	47.70				Unknown						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
J1	0.07	0.95	1.86	3.80	5.82	7.85	17.33	154%	66.99							Unknown
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
S2	17.04	17.04	17.04	9.12	8.69	128.28				Unknown						
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A1	18.26	16.42	17.34	8.05	8.84	118.61	asym				Unknown					