

BOAT
Name NUVOLA Sail Nr ITA-4974

GPH
706,2

HULL
Length Overall 10,890 m
Maximum Beam 2,938 m
Displacement 6.519 kg
Draft 1,830 m
IMS Reg. Division Cruiser/Racer
Dynamic Allowance 0,449%
Fwd Accommodation Yes
Hull Construction Cored
Carbon Rudder No
Crew Arm Extension
IMS L 8,123 VCGD -0,408 VCGM -0,368
Sink 14,46 kg/mm Wetted Area 22,94 m²

GENERAL
Class GAIA
Designer SPARKMAN&STEPHENS
Builder BENELLO
Series 06/1970
Age 06/1970
Age Allowance 0,487%
Offset File IGAIA.OFF - 6/6/2014 14:18:32
Measurement by RENAI-NO CETI - 08/08/1997



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SCORING OPTIONS						
	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	688,1			770,6		
Time On Time	0,8720			0,8759		
Performance Line	PLT	PLD		PLT	PLD	
	0,745	102,5		0,707	175,0	
Triple Number	Low	Medium	High	Low	Medium	High
	0,8284	1,0802	1,2218	0,6373	0,8650	1,0211

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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1187,6	1010,2	906,2	842,9	807,3	784,3	771,3
52°	768,4	653,7	584,4	554,5	540,1	532,4	525,5
60°	723,1	611,4	556,7	533,1	520,9	514,2	508,2
75°	685,8	581,4	539,6	518,7	503,1	492,0	483,0
90°	689,2	583,2	540,9	519,9	503,9	489,4	466,8
110°	737,5	605,4	543,3	515,5	494,5	481,5	468,8
120°	760,7	624,2	552,1	521,8	500,6	481,1	457,4
135°	840,1	691,2	589,7	541,6	516,7	496,7	460,5
150°	986,4	782,7	663,6	581,3	539,7	516,2	478,6
Run VMG	1139,0	899,9	757,5	655,1	583,6	542,9	500,0
Selected Courses							
Windward / Leeward	1163,3	955,1	831,8	749,0	695,4	663,6	635,6
Circular Random	975,5	787,2	685,2	625,1	587,9	563,9	535,4
Ocean for PCS	1038,8	821,7	699,8	624,6	575,0	540,0	491,4
Non Spinnaker	1008,0	810,6	702,9	638,8	598,7	572,4	541,0

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Number 49741
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VPP Ver. 2014 1.00
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Crew Weight
Declared 450 kg
Default* 488 kg
Non Manual Pwr No

Special Scoring
ToD ToT
Double H.GPH 708,8 0,8465
Double H.OSN 691,2 0,8680
Non Spin GPH 724,7 0,8279
Non Spin OSN 705,2 0,8508
N/S Perf. Line 85,0 0,703

Sails Limitations
Genoas 2 Jibs 2 Spinnakers 3
Spinnaker configuration Symmetric

Storm Sails Areas
Heavy Weather Jib 24,31
Storm Jib (JL=8,72) 9,01
Storm Trysail 7,64

Owner

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	44,6°	43,9°	45,1°	44,3°	42,9°	41,9°	41,9°
Beat VMG	3,03	3,56	3,97	4,27	4,46	4,59	4,67
52°	4,69	5,51	6,16	6,49	6,67	6,76	6,85
60°	4,98	5,89	6,47	6,75	6,91	7,00	7,08
75°	5,25	6,19	6,67	6,94	7,16	7,32	7,45
90°	5,22	6,17	6,66	6,92	7,14	7,36	7,71
110°	4,88	5,95	6,63	6,98	7,28	7,48	7,68
120°	4,73	5,77	6,52	6,90	7,19	7,48	7,87
135°	4,29	5,21	6,11	6,65	6,97	7,25	7,82
150°	3,65	4,60	5,42	6,19	6,67	6,97	7,52
Run VMG	3,16	4,00	4,75	5,50	6,17	6,63	7,20
Gybe Angles	147,7°	155,9°	169,8°	170,5°	174,7°	178,4°	179,1°

BOAT	
Name NUVOLA	Sail Nr ITA-4974
File (0)	Data in meters/kilograms

RIG				
Forestay Tension Aft		Spreaders 1		
Inner Stay None Fitted		Runners 0		
Carbon Mast No		Jumper Struts None		
Taper Hollows No		Jib Furler No		
Fiber Rigging No		Main Furler No		
Lenticular Rigging No		Without Backstay No		
Articulated Bowsprit No				
P 11,500	E 3,795	MDT1 0,128	MW 0,142	
IG 13,277	J 4,210	MDL1 0,226	GO 0,187	
ISP 13,277	SFJ	MDT2 0,124	BD 0,090	
BAS 1,597	SPL 4,210	MDL2 0,180	MWT 200,00	
FSP	TPS	TL 1,340	MCG 4,050	

INCLINING TEST AND FREEBOARDS				
Inclining Test Pre-1989 Inclining				
Flotation date		SG		
FFM 1,175	FF 1,191	SFFP 0,588		
FAM 0,795	FA 0,799	SAFP 9,800		
AW 35,00	AWD 3,77	APD 34,00	PLM 1420,0	
BW 70,00	BWD 3,77	BPD 63,00		
CW 35,00	CWD 3,87	CPD 36,00		
DW 70,00	DWD 3,87	DPD 67,00		
LCF from stem on CL / on sheer		5,579 / 5,781		
Maximum beam station from stem		5,788		
RM Measured / Default		98,6 / 78,6		
Limit of positive stability / Stab.Index		144,3° / 150,2		
Freeboard at mast at 4,210		0,911		



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation In Aperture	PRD 0,400	
Type Feathering 3 blades	PBW 0,140	
Twin Screw No	PIPA 0,0112	
APH 0,600	APT 0,300	APB 0,250

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COMMENTS	
ANCORE 20-1.00	
BATTERIE 30-5.95	

MOVEABLE BALLAST	
N/A	



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CENTERBOARD	
N/A	

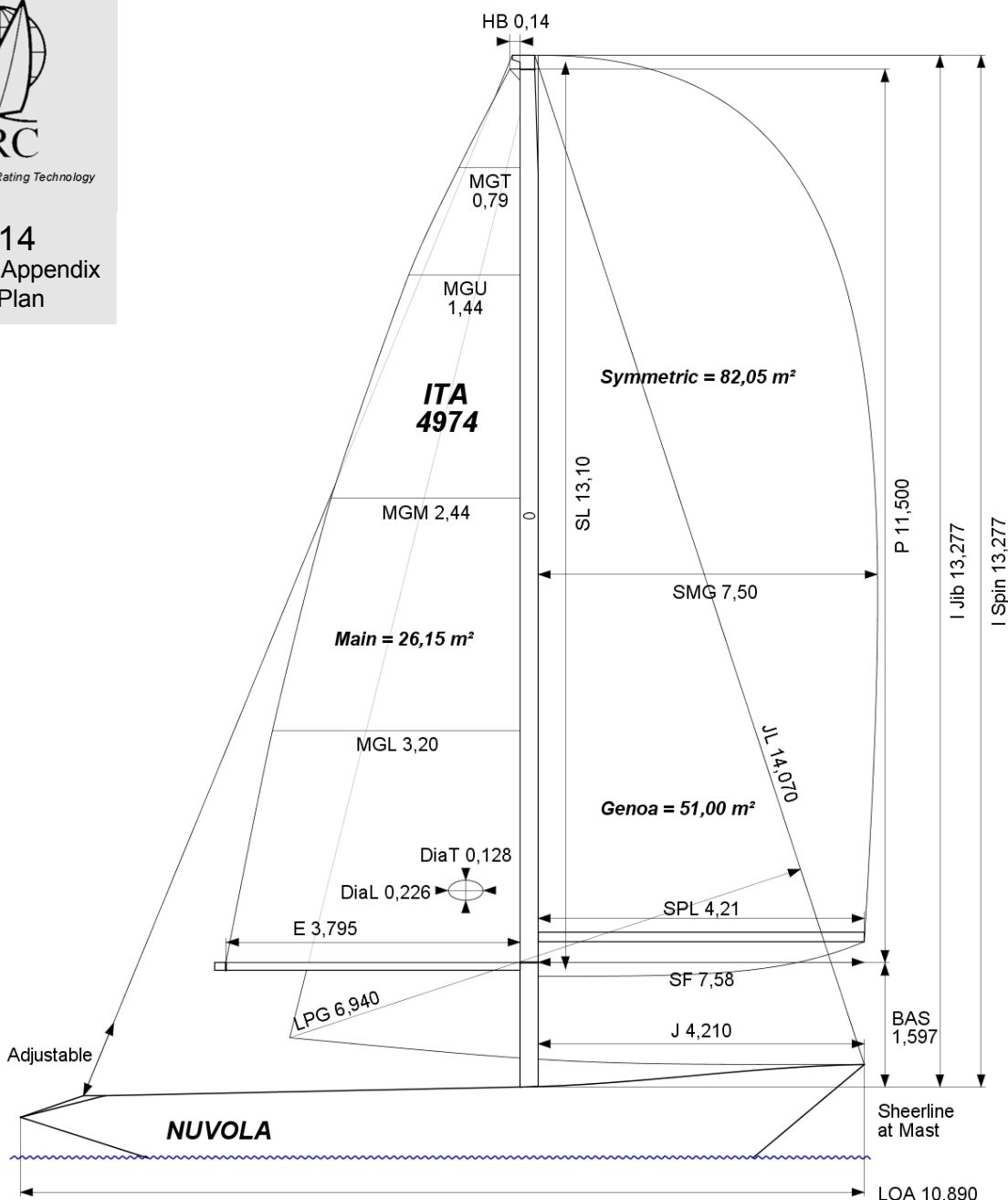
SAILS (Maximum Areas)						
Mainsail	HB	MGT	MGU	MGM	MGL	
	0,140	0,79	1,44	2,44	3,20	
						Area Area (r) Formula
						26,15 26,64 P/8 · (E + 2·MGL+ 2·MGM + 1.5·MGU + MGT + 0.5·HB)
Symmetric	SL	SMG	SF			
	13,10	7,50	7,58			82,05 SL · (SF + 4·SMG) / 6
Asymmetric	Not Available					

HEADSAILS												
Area = 0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)												
JH	JGT	JGU	JGM	JGL	LPG	JL	Area	Btn	Fly	Meas.Date	Material	Comment
					6,94	0,00	51,01					* Copied from legacy *



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Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0,140	0,79	1,44	2,44	3,20	26,01					* Copied from legacy

HEADSAILS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
ORC						6,94	0,00	165%	51,01							* Copied from legacy *

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	13,10	7,50	0,00	82,05					* Copied from legacy *

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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