

BOAT Name NEMESIS Sail Nr ECU-3	GPH 619,5	HULL Length Overall 11,372m Maximum Beam 3,786m Displacement 6.721kg Draft 2,203m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,030% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class J37 Designer J. JHONSTONE Builder T&P Series 01/1987 Age 01/1987 Age Allowance 0,487% Offset File US18945.BOF - 07/05/1987 03:02:50 Measurement by P. GUTIERREZ - 30/09/2017		IMSL 10,062m VCGD -0,070m Sink 20,59kg/mm RL 8,875m VCGM -0,084m WS 27,73m² LSMO 10,160m Displacement/Length ratio 6,4084



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Rating Office
Federación Ecuatoriana
de Vela
Patricio D. Gutiérrez - RO
gutierrez@yca.org.ar



SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	602,4			669,4		
Time On Time	0,9961			1,0083		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	709,1	549,5	488,2	917,2	675,1	579,5
Time on Time	0,9519	1,2284	1,3827	0,7359	0,9998	1,1647

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	1028,1	860,2	761,4	708,8	682,9	669,0	659,9
52°	673,0	568,1	516,3	496,3	487,3	482,1	477,4
60°	635,4	540,0	502,0	484,7	474,2	468,4	462,8
75°	604,0	521,2	491,4	473,8	459,3	446,9	435,8
90°	605,3	521,1	490,0	472,1	456,2	440,5	415,4
110°	643,6	531,5	489,2	465,4	443,9	431,0	411,5
120°	661,9	544,5	495,1	470,5	447,8	424,8	396,8
135°	729,3	594,5	518,3	485,9	464,1	442,2	399,9
150°	858,7	683,2	579,7	516,0	486,4	465,8	425,0
Run VMG	991,6	788,9	668,8	587,9	532,8	496,5	455,2

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VPP Ver. **2017 1.00**
Valid until **31/03/2018**

Crew Weight
Declared **730kg**
Default* **704kg**
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **644,6 0,9308**
Non Spin OSN **627,0 0,9570**

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1009,9	824,5	715,1	648,4	607,9	582,7	557,5
Circular Random	851,7	688,7	601,2	550,3	518,6	497,8	471,7
Ocean for PCS	1043,9	807,7	674,4	592,9	539,9	503,2	452,8
Non Spinnaker	896,3	720,5	625,0	568,6	533,4	510,1	480,6

Sails Limitations
Headsails **5** | Spinnakers **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	43,2°	41,9°	42,0°	40,2°	38,4°	37,5°	37,3°
Beat VMG	3,50	4,19	4,73	5,08	5,27	5,38	5,46
52°	5,35	6,34	6,97	7,25	7,39	7,47	7,54
60°	5,67	6,67	7,17	7,43	7,59	7,69	7,78
75°	5,96	6,91	7,33	7,60	7,84	8,05	8,26
90°	5,95	6,91	7,35	7,63	7,89	8,17	8,67
110°	5,59	6,77	7,36	7,74	8,11	8,35	8,75
120°	5,44	6,61	7,27	7,65	8,04	8,47	9,07
135°	4,94	6,06	6,95	7,41	7,76	8,14	9,00
150°	4,19	5,27	6,21	6,98	7,40	7,73	8,47
Run VMG	3,63	4,56	5,38	6,12	6,76	7,25	7,91
Gybe Angles	145,3°	150,1°	151,2°	156,6°	174,9°	180,0°	180,0°

Class Division Length
CDL = **9,469**

Storm Sails Areas
Heavy Weather Jib **33,49**
Storm Jib (JL=10,24) **12,40**
Storm Trysail **11,66**

Owner
JOHN WIENER GOMEZ


I certify that I understand my responsibilities under ORC Rules and Regulations

Signature

BOAT	
Name NEMESIS	Sail Nr ECU-3
File ECU3 (1)	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 30/09/2017		SG 1,0253	
FFM 1,111	FF 1,113	SFFP 0,643	
FAM 0,906	FA 0,906	SAFP 11,127	
W1 95,0	PD1 553,4	WD 11,490	
W2 95,0	PD2 551,6	GSA 1,0	
W3 95,0	PD3 553,6	RSA 1,0	
W4 95,0	PD4 559,0	PLM 9000,0	
LCF from stem on CL / on sheer		6,546 / 6,782	
Maximum beam station from stem		7,501	
RM Measured		155,1kg·m	
RM Default		142,1kg·m	
Limit of positive stability / Stab.Index		116,5° / 118,2	
Freeboard at mast at 4,415		0,989	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 1		
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 13,544	E 4,919	MDT1 0,122	MW 0,137
IG 15,607	J 4,415	MDL1 0,203	GO 0,177
ISP 15,582	SFJ 0,000	MDT2 0,100	BD 0,152
BAS 1,712	SPL 4,410	MDL2 0,139	MWT
FSP 0,056	TPS	TL 1,900	MCG




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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0,415		
Type Folding 2 blades	PBW 0,119		
Twin Screw No	PIPA 0,0044		
PSA 15,400	PHL 0,132	ST3 0,830	ESL 0,935
PSD 0,025	ST1 0,020	ST4 0,050	
PHD 0,070	ST2 0,076	ST5 0,200	

COMMENTS	
cambio de armador ex Compañero medio estab, flotacion y velas	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,155	1,00	1,87	3,17	4,09	39,48	40,33	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	103,87		SL · (SFL + 4·SHW) / 6	
	15,60	15,60	15,60	8,00	7,95				
Asymmetric Not Available									

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
H HB	H UW	H TW	H HW	H QW	H LP	H LU	Area	Btn	Fly	Meas.Date	Material	Comment
0,04	0,75	1,43	2,97	4,63	6,40	15,36	47,28			10/03/2015	Kevlar	REMEDIACION
0,09	0,72	1,41	2,83	4,34	5,94	15,42	44,76			04/03/2015	Kevlar	JIB TOP

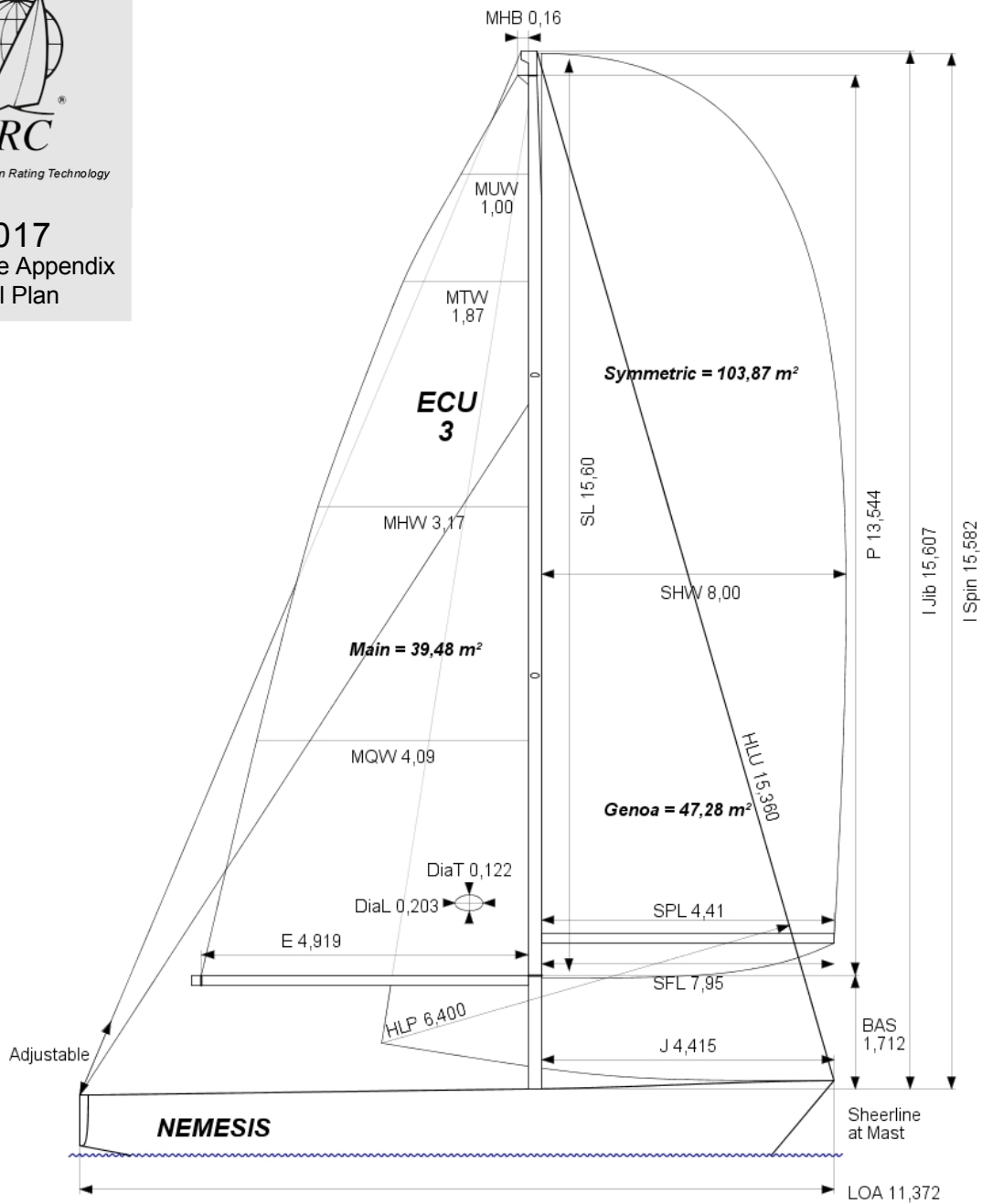
MEASUREMENT INVENTORY				
Measurer PATRICIO GUTIERREZ P G				
Date 30/09/2017				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
C6	Engine	VOLVO PENTA	3	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
E6	Tank	PETROLEO	ALUMINIO	90,0	5,60	0,00	18,0
B6	Tank	AGUA	PVC	90,0	5,60	0,00	0,0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
B3	Battery	16,0	8,20	0,00 12 V -100 AMP			
B3	Battery	16,0	8,20	0,00 12 V -100 AMP			
B3	Battery	16,0	8,20	0,00 12 V - 100 AMP			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M2	0,155	1,00	1,87	3,17	4,09	39,48	A V M	29/04/2016	ELVSTROM	Kevlar	REMEDICION

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0,04	0,75	1,43	2,97	4,63	6,40	15,36	145%	47,28			DECLAR	10/03/2015	ELVSTROM	Kevlar	REMEDICION
G2	0,09	0,72	1,41	2,83	4,34	5,94	15,42	135%	44,76			G LIZA	04/03/2015	ELVSTROM	Kevlar	JIB TOP

SYMMETRIC SPINNAKERS (3)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S1	15,60	15,60	15,60	8,00	7,95	103,87	A V M	07/06/2017	ELVSTROM	Nylon	NUEVO
S3	15,33	15,33	15,33	7,93	7,62	100,51	A V M	29/04/2016	ELVSTROM	Nylon	REMEDICION
S2	15,54	15,54	15,54	7,25	7,44	94,38	R PESCHIERA	08/10/2014	ELVSTROM	Nylon	

ASYMMETRIC SPINNAKERS (0)

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