

BOAT Name SELVAGGIA Sail Nr ITA-16092	GPH 666.1	HULL Length Overall 10.025m Maximum Beam 3.428m Displacement 4,705kg Draft 1.897m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.270% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class ELAN 333 Designer HUMPHREYS Builder ELAN MARINE Series 01/1998 Age 12/2000 Age Allowance 0.487% Offset File ELAN333.OFF - 29/01/2015 13:15:48 Measurement by AVETA - 18/10/2012		IMSL 9.181m VCGD -0.056m Sink 16.65kg/mm RL 7.510m VCGM 0.060m WS 22.02m² LSM0 9.165m Displacement/Length ratio 6.1117




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SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	645.5			719.7		
Time On Time	0.9295			0.9379		
Performance Line	PLT	PLD		PLT	PLD	
	0.617	29.2		0.743	166.9	
Triple Number	Low	Medium	High	Low	Medium	High
	0.8717	1.1495	1.3056	0.6722	0.9285	1.0935

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1164.4	959.0	845.4	770.5	737.9	722.9	711.2
52°	755.6	631.9	561.5	529.0	515.0	509.2	505.2
60°	709.8	596.1	539.3	514.3	500.9	493.8	488.8
75°	673.0	568.5	524.0	502.4	486.3	473.0	458.8
90°	677.7	564.0	515.5	496.8	485.9	469.8	440.7
110°	678.0	559.8	513.1	487.5	463.4	447.6	429.1
120°	700.4	575.4	520.1	493.5	470.0	445.8	412.1
135°	776.5	632.3	548.8	511.6	488.0	464.7	419.4
150°	915.8	723.6	613.3	544.3	511.1	488.9	445.2
Run VMG	1057.5	835.5	706.4	619.3	557.4	519.3	475.4

Selected Courses							
Windward / Leeward	1111.0	897.3	775.9	694.9	647.6	621.1	593.3
Circular Random	927.1	744.6	645.7	587.5	551.5	528.0	498.8
Ocean for PCS	1136.3	873.9	725.1	633.8	574.6	533.5	477.2
Non Spinnaker	986.3	786.0	675.9	610.3	569.5	543.1	511.5

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	43.6°	42.0°	42.0°	40.9°	39.6°	38.9°	38.9°
Beat VMG	3.09	3.75	4.26	4.67	4.88	4.98	5.06
52°	4.76	5.70	6.41	6.80	6.99	7.07	7.13
60°	5.07	6.04	6.67	7.00	7.19	7.29	7.37
75°	5.35	6.33	6.87	7.17	7.40	7.61	7.85
90°	5.31	6.38	6.98	7.25	7.41	7.66	8.17
110°	5.31	6.43	7.02	7.38	7.77	8.04	8.39
120°	5.14	6.26	6.92	7.29	7.66	8.07	8.74
135°	4.64	5.69	6.56	7.04	7.38	7.75	8.58
150°	3.93	4.97	5.87	6.61	7.04	7.36	8.09
Run VMG	3.40	4.31	5.10	5.81	6.46	6.93	7.57
Gybe Angles	146.2°	150.7°	152.6°	158.0°	180.0°	180.0°	180.0°

Certificate

Number **160921**
ORC Ref **ITA00019885**
Issued On **13/05/2016**
VPP Ver. **2016 1.01**
Valid until **31/12/2016**

Crew Weight

Declared **500kg**
Default* **608kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	669.0	0.8969
Double H.OSN	649.7	0.9235
Non Spin GPH	698.1	0.8595
Non Spin OSN	675.0	0.8889
N/S Perf. Line	5.8	0.556

Sails Limitations

Headsails	Spinnakers
6	3

Class Division Length

CDL = **8.346**

Storm Sails Areas

Heavy Weather Jib	23.25
Storm Jib (JL=8.53)	8.61
Storm Trysail	9.71

Owner

BOAT	
Name SELVAGGIA	Sail Nr ITA-16092
File I16092.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 18/10/2012		SG 1.0250	
FFM 1.263	FF 1.265	SFFP 0.400	
FAM 0.967	FA 0.971	SAFP 9.350	
W1 66.600	PD1 600.6	WD 10.470	
W2 66.600	PD2 607.5	GSA 1.0	
W3 66.600	PD3 604.1	RSA 1.0	
W4 66.600	PD4 600.9	PLM 9000.0	
LCF from stem on CL / on sheer		5.536 / 5.782	
Maximum beam station from stem		6.599	
RM Measured		91.0kg·m	
RM Default		91.9kg·m	
Limit of positive stability / Stab.Index		113.0° / 112.5	
Freeboard at mast at 3.680		1.025	

RIG			
Forestay Tension Aft	Spreaders 2		
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 12.300	E 4.510	MDT1 0.120	MW 0.150
IG 12.910	J 3.680	MDL1 0.175	GO 0.210
ISP 13.190	SFJ	MDT2 0.120	BD 0.140
BAS 1.690	SPL 3.680	MDL2 0.145	MWT
FSP 0.080	TPS	TL 0.140	MCG



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IMS Measurement Certificate

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.401		
Type Folding 3 blades	PBW 0.120		
Twin Screw No	PIPA 0.0042		
PSA 15.000	PHL 0.135	ST3 0.105	ESL 0.950
PSD 0.025	ST1 0.022	ST4 0.050	
PHD 0.065	ST2 0.095	ST5 0.180	

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COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



Invalid for Racing

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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.160	0.90	1.61	2.78	3.66	31.96	32.54	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	69.44		SL · (SFL + 4·SHW) / 6	
	12.80	12.80	12.80	6.60	6.15				
Asymmetric	Not Available								

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
0.11	0.58	1.09	1.99	2.85	3.67	12.37	24.01	N	N	18/10/2012	Unknow	L
0.10	0.56	1.06	1.93	2.82	3.68	12.40	23.74	N	N	18/10/2012		M

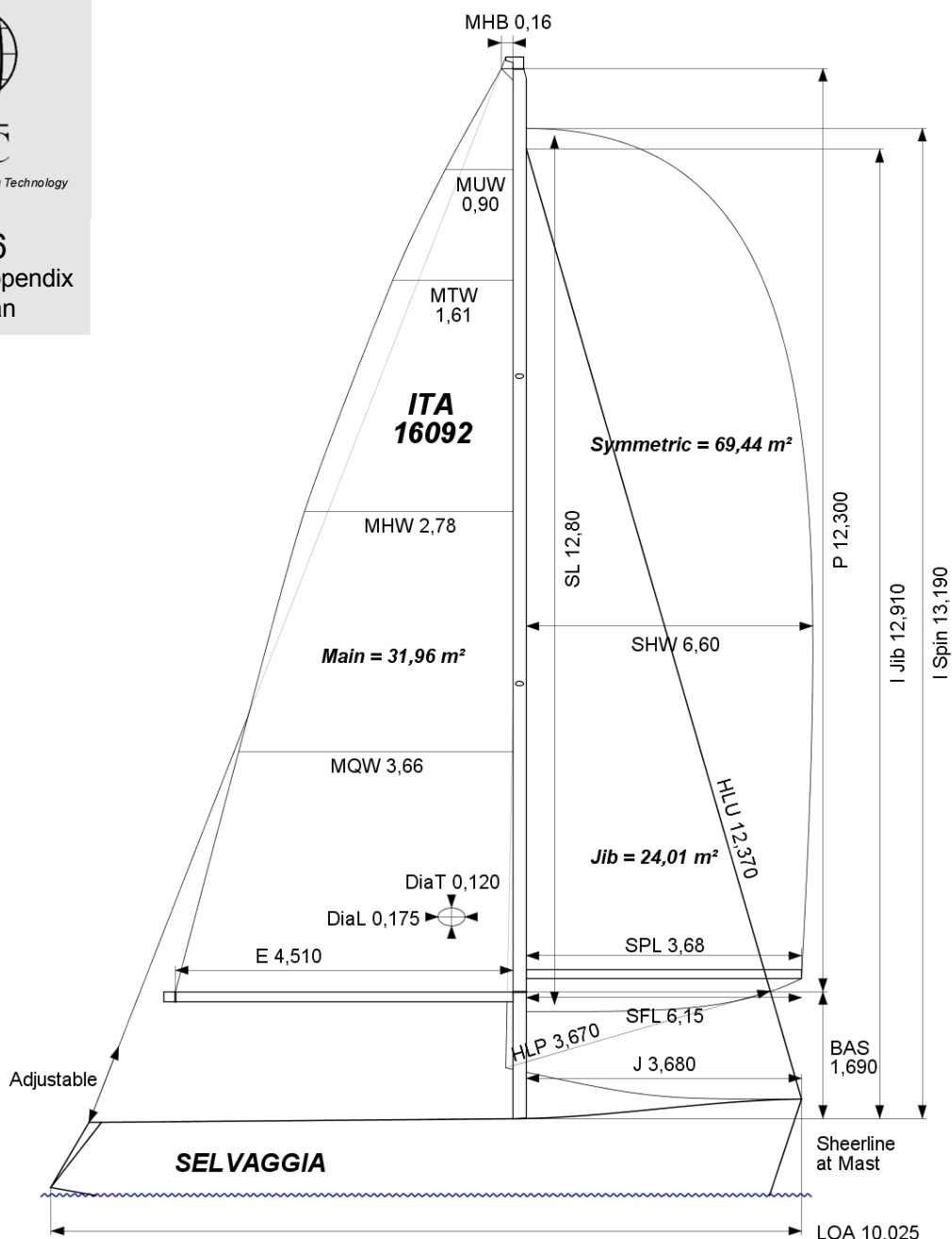
MEASUREMENT INVENTORY				
Measurer AVETA 164				
Date 18/10/2012				
Comment				
Id	Item	Weight	Distance	VCG Description
A	Anchor	5.6	3.83	0.00
A	Tools	5.5	3.78	0.00
Id	Item	Maker	Model	
A	Engine	YANMAR	27 CV	
Id	Item	Weight	Description	
A	Deck-Gear	15.0		

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtm Description
A	Tank	ACQUA	INOX	180.0	4.58	0.00	0-0 VUOTO
B	Tank	GASOLIO	INOX	80.0	7.90	0.00	25-0 LITRI
Id	Item	Weight	Distance	VCG Description			
A	Battery	0.0	7.33	0.00 1 DA 60 AH			
B	Battery	0.0	7.63	0.00 1 DA 100 AH			
A	Misc	20.0	0.90	0.00 SALPAANCORE			
B	Misc	0.0	0.00	0.00 CUCINA CON FORNO			



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Sail Plan



SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.160	0.90	1.61	2.78	3.66	31.96	AVETA	18/10/2012	NORTH		

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
B	0.11	0.58	1.09	1.99	2.85	3.67	12.37	100%	24.01	N	N	AVETA	18/10/2012	NORTH	Unknow	L
A	0.10	0.56	1.06	1.93	2.82	3.68	12.40	100%	23.74	N	N	AVETA	18/10/2012	NORTH		M

SYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	12.80	12.80	12.80	6.60	6.15	69.44	AVETA	18/10/2012	NORTH		

ASYMMETRIC SPINNAKERS

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