BOAT

Name **ADELE**
Sail Nr **EST 467**

GPH

653,1

GENERAL

Class	**First 34.7**
Designer	**Farr**
Builder	**Beneteau**
Series	**10.2005**
Age	**05.2007**
Age Allowance	**0,292%**
Offset File	**F235.OFF - 27.07.2006 16:07:34**
Measurement by	**A.Tetsmann/Rosme - 27.07.2013**

HULL

Length Overall	**9,980 m**
Maximum Beam	**3,372 m**
Displacement	**4 820 kg**
Draft	**2,011 m**
IMS Reg. Division	**Cruiser/Racer**
Dynamic Allowance	**0,223%**
Fwd Accommodation	**No**
Hull Construction	**Cored**
Carbon Rudder	**No**
Crew Arm Extension	

IMS L **9,179** VCGD **-0,060** VCGM **-0,058**
Sink **16,77 kg/mm** Wetted Area **22,54 m²**

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SCORING OPTIONS

	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	**633,1**			**703,4**		
Time On Time	**0,9477**			**0,9596**		
	PLT		PLD	PLT		PLD
Performance Line	**0,801**		**100,0**	**0,746**		**157,2**
	Low	Medium	High	Low	Medium	High
Triple Number	**0,8905**	**1,1714**	**1,3287**	**0,6848**	**0,9500**	**1,1208**

Rating Office

EYU
Regati 1
Tallinn, 11911
Estonia

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	**1116,4**	**923,8**	**815,2**	**745,4**	**715,4**	**700,6**	**693,1**
52°	**726,7**	**608,5**	**545,4**	**516,7**	**504,1**	**498,5**	**494,8**
60°	**683,1**	**574,9**	**526,4**	**503,7**	**490,5**	**483,7**	**479,0**
75°	**649,0**	**552,1**	**513,5**	**493,6**	**477,2**	**463,3**	**449,3**
90°	**656,6**	**551,1**	**507,6**	**486,6**	**477,7**	**460,9**	**432,7**
110°	**667,9**	**551,8**	**506,9**	**481,8**	**457,4**	**435,2**	**416,9**
120°	**691,7**	**568,8**	**514,7**	**488,9**	**466,4**	**442,9**	**402,9**
135°	**773,8**	**630,8**	**546,1**	**508,2**	**485,0**	**462,8**	**418,6**
150°	**921,4**	**726,6**	**613,5**	**542,0**	**507,3**	**484,9**	**441,6**
Run VMG	**1064,0**	**838,5**	**705,2**	**610,4**	**546,1**	**510,5**	**466,8**
Selected Courses							
Windward / Leeward	**1090,2**	**881,2**	**760,2**	**677,9**	**630,7**	**605,6**	**580,0**
Circular Random	**907,8**	**729,7**	**633,2**	**576,6**	**541,5**	**518,6**	**490,3**
Ocean for PCS	**966,8**	**761,8**	**647,2**	**577,3**	**531,6**	**499,5**	**453,9**
Non Spinnaker	**962,6**	**768,4**	**662,0**	**598,8**	**559,5**	**534,0**	**503,4**

Certificate

Number	**EST467**
ORC Ref	**EST00000058**
Issued On	**28.04.2014**
VPP Ver.	**2014 1.01**
Valid until	**31.12.2014**

Crew Weight

Declared	**713 kg**
Default*	**595 kg**
Non Manual Pwr	**No**

Special Scoring

	ToD	ToT
Double H.GPH	**656,4**	**0,9141**
Double H.OSN	**638,5**	**0,9397**
Non Spin GPH	**683,6**	**0,8777**
Non Spin OSN	**659,6**	**0,9096**
N/S Perf. Line	**72,9**	**0,727**

Sails Limitations

Genoas	Jibs	Spinnakers
0	**4**	**3**

Spinnaker configuration
Symmetric

Storm Sails Areas

Heavy Weather Jib	**23,85**
Storm Jib (JL=8,64)	**8,83**
Storm Trysail	**10,08**

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	**43,4°**	**42,0°**	**42,0°**	**40,3°**	**39,3°**	**38,6°**	**38,6°**
Beat VMG	**3,22**	**3,90**	**4,42**	**4,83**	**5,03**	**5,14**	**5,19**
52°	**4,95**	**5,92**	**6,60**	**6,97**	**7,14**	**7,22**	**7,28**
60°	**5,27**	**6,26**	**6,84**	**7,15**	**7,34**	**7,44**	**7,52**
75°	**5,55**	**6,52**	**7,01**	**7,29**	**7,54**	**7,77**	**8,01**
90°	**5,48**	**6,53**	**7,09**	**7,40**	**7,54**	**7,81**	**8,32**
110°	**5,39**	**6,52**	**7,10**	**7,47**	**7,87**	**8,27**	**8,64**
120°	**5,20**	**6,33**	**6,99**	**7,36**	**7,72**	**8,13**	**8,94**
135°	**4,65**	**5,71**	**6,59**	**7,08**	**7,42**	**7,78**	**8,60**
150°	**3,91**	**4,95**	**5,87**	**6,64**	**7,10**	**7,42**	**8,15**
Run VMG	**3,38**	**4,29**	**5,10**	**5,90**	**6,59**	**7,05**	**7,71**
Gybe Angles	**145,6°**	**151,9°**	**157,3°**	**168,9°**	**175,5°**	**178,8°**	**178,8°**

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BOAT

Name	**ADELE**	Sail Nr	**EST 467**
File	**Est0467.dxt**	Data in	**meters/kilograms**

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	**12,800**	E	**4,500**	MDT1	**0,117**	MW	**0,170**
IG	**13,210**	J	**3,640**	MDL1	**0,170**	GO	**0,192**
ISP	**13,240**	SFJ	**0,000**	MDT2	**0,117**	BD	
BAS	**1,540**	SPL	**3,700**	MDL2	**0,135**	MWT	**129,10**
FSP	**0,070**	TPS		TL	**0,750**	MCG	**4,540**

MIZZEN RIG AND SAILS

N/A

COMMENTS

INCLINING TEST AND FREEBOARDS

Inclining Test **Current Inclining**

Flotation date **15.05.2008** SG **1,0020**

FFM	**1,288**	FF	**1,300**	SFFP	**0,172**
FAM	**1,014**	FA	**1,019**	SAFP	**9,530**
W1	**62,600**	PD1	**220,0**	WD	**10,260**
W2	**62,600**	PD2	**216,0**	GSA	**12,6**
W3	**62,600**	PD3	**217,0**	RSA	**4298,7**
W4	**62,600**	PD4	**219,0**	PLM	**2005,0**

LCF from stem on CL / on sheer	**5,432 / 5,668**
Maximum beam station from stem	**6,642**
RM Measured / Default	**103,1 / 101,8**
Limit of positive stability / Stab.Index	**125,3° / 125,5**
Freeboard at mast at 3,640	**1,157**

PROPELLER

Installation	**Strut**	PRD	**0,410**
Type	**Folding**	PBW	
Twin Screw	**No**	PIPA	**0,0036**

ST1	**0,120**	ST3	**0,180**	ST5	**0,180**
ST2	**0,180**	ST4	**0,110**	EDL	**1,800**

MOVEABLE BALLAST

N/A

CENTERBOARD

N/A

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IMS Measurement Certificate

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SAILS (Maximum Areas)

Mainsail	HB	MGT	MGU	MGM	MGL	Area	Area (r)	Formula
	0,160	0,93	1,67	2,91	3,76	34,17	34,85	P/8 · (E + 2·MGL+ 2·MGM + 1.5·MGU + MGT + 0.5·HB)
Symmetric	**SL**	**SMG**	**SF**					
	13,10	6,84	6,55			74,04		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
0,11	0,65	1,20	2,17	3,05	3,82	12,95	26,90			04.07.2013	Unknow	
0,10	0,56	1,05	2,08	2,95	3,78	12,95	25,80			26.04.2012	Unknow	
0,10	0,49	0,91	1,76	2,66	3,57	12,27	21,95			26.05.2010	Unknow	

MEASUREMENT INVENTORY

Measurer **ATetsmann EST 1**

Date

Comment

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*
1	Anchor	18,0	3,75		Anchor
1	Tools	7,5	5,70		Tools , portside

Id	*Item*	*Maker*	*Model*
1	Engine	Yanmar	3YM20

Id	*Item*	*Weight*	*Description*

MEASUREMENT INVENTORY

Id	*Item*	*Tank Use*	*Tank Type*	*Capcty*	*Dist.*	*VCG*	*Condtn*	*Description*
1	Tank	Water		100,0	4,00			Water tabk, portside
2	Tank	Fuel		60,0	7,55			Fuel tank, starboard

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*
1	Battery		3,80		Battery Tudor 70Ah, portside
2	Battery		4,10		Battery Varta 90Ah, portside
1	Misc		7,00		Heater 15,0
2	Misc		8,15		Shore power 10,0

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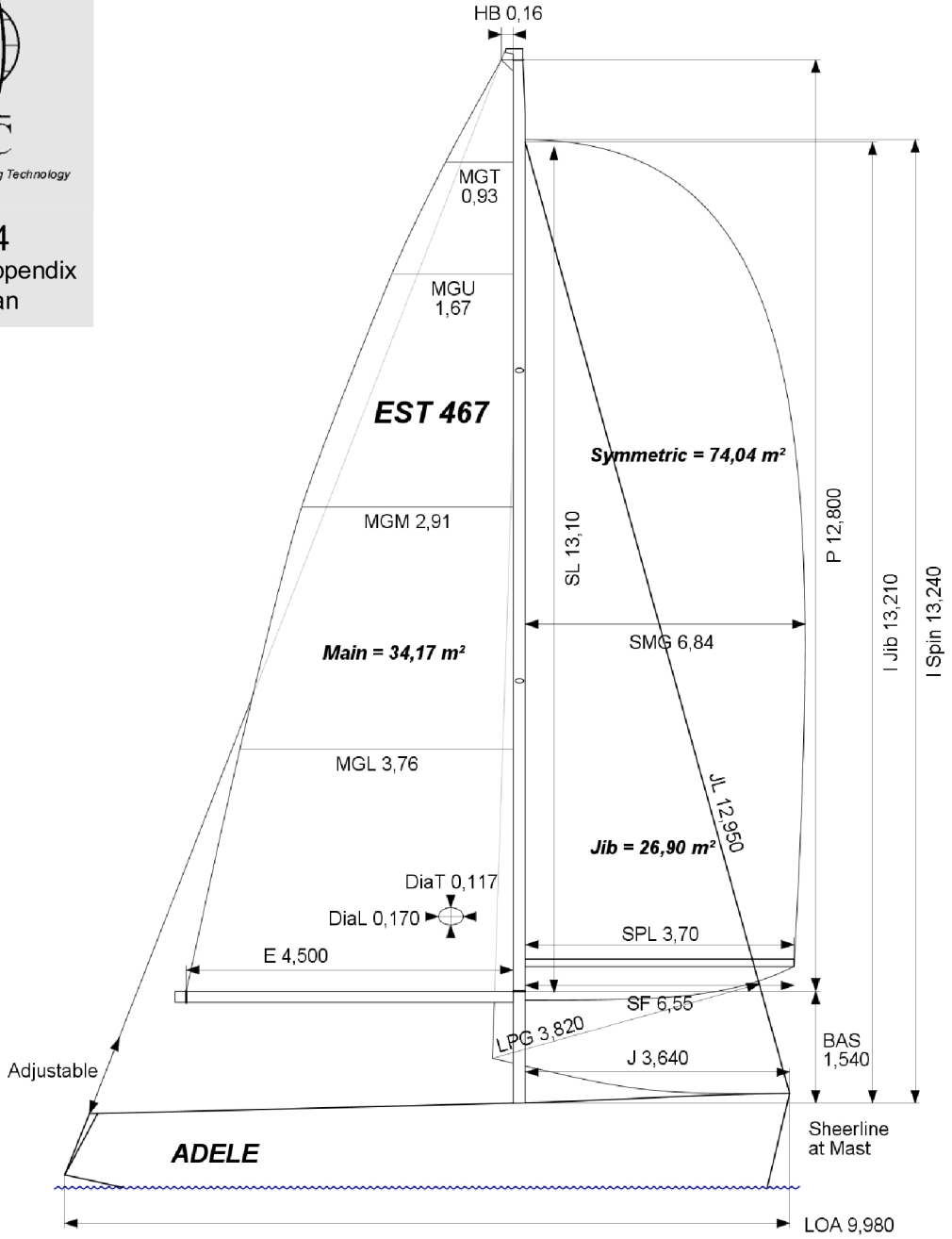
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0,160	0,93	1,67	2,91	3,76	34,17	EST 1	26.04.2012	OneSail	Unknown	

HEADSAILS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
5	0,11	0,65	1,20	2,17	3,05	3,82	12,95	105%	26,90			EST 1	04.07.2013		Unknow	
3	0,10	0,56	1,05	2,08	2,95	3,78	12,95	104%	25,80			EST 1	26.04.2012	OneSails	Unknow	
4	0,10	0,49	0,91	1,76	2,66	3,57	12,27	98%	21,95			D206	26.05.2010		Unknow	

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
5	13,10	6,84	6,55	74,04			OneSails	Unknown	S2
4	13,10	6,82	6,50	73,75	EST 2	27.07.2013		Unknown	
2	12,98	6,59	6,34	70,74				Unknown	
3	13,02	6,00	6,50	66,19	EST 2	30.07.2012	OneSails	Unknown	S3

ASYMMETRIC SPINNAKERS

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

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