

BOAT
Name RED DREAM
Sail Nr EST 545

GPH
623,8

HULL
Length Overall 10,500 m
Maximum Beam 3,467 m
Displacement 5 853 kg
Draft 1,997 m
IMS Reg. Division Cruiser/Racer
Dynamic Allowance 0,735%
Fwd Accommodation Yes
Hull Construction Cored
Carbon Rudder No
Trim Tab No
IMS L 9,913 VCGD 0,133 VCGM 0,208
Sink 19,63 kg/mm Wetted Area 25,90 m²



2009
ORC International
Certificate

GENERAL
Class DEHLER 34
Designer Simonis-Voogd
Builder DEHLER
Series 03.2007
Age 07.2008
Age Allowance 0,130%
Offset File DE34SV.OFF - 5.02.2009 12:15:46
Measurement by Tetsmann - 10.07.2008

SCORING OPTIONS		
	OFFSHORE	INSHORE
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time On Distance	623,8	698,9
Time On Time	0,9619	0,9658
Performance Line	PLT 0,865 PLD 117,2	PLT 1,039 PLD 323,8
Triple Number	Low 0,9460 Medium 1,2210 High 1,3668	Low 0,7184 Medium 0,9805 High 1,1348

Rating Office
Estonian Yachting Union
Veiko Rosme
Regati 1, 11911, Tallinn
Estonia

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1079,6	883,2	781,2	738,5	713,3	698,2	687,3
52°	693,8	578,9	528,4	503,6	492,3	486,0	481,1
60°	647,0	552,4	507,0	483,4	475,2	470,2	465,6
75°	609,6	524,4	483,3	470,5	455,8	447,2	439,1
90°	576,7	502,5	470,0	457,8	449,7	442,5	417,7
110°	588,9	515,5	477,1	454,6	431,0	418,1	401,8
120°	626,2	534,5	488,4	464,0	440,5	416,7	385,5
135°	724,9	584,5	521,3	483,3	462,2	440,8	396,2
150°	869,3	685,8	578,7	522,5	485,8	464,8	424,5
Run VMG	1003,7	791,9	667,0	588,3	535,8	497,9	456,1

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Crew Weight
Declared 600 kg
Default* 647 kg

Special Scoring
ToD ToT
Double 626,4 0,9579
Non Spinnaker 671,2 0,8940

Selected Courses							
Windward / Leeward	1061,1	850,7	736,3	671,9	631,8	604,9	578,1
Circular Random	857,4	692,9	605,2	554,6	523,6	503,2	477,2
Ocean for PCS	917,0	725,3	619,1	554,8	512,7	482,4	437,6
Non Spinnaker	946,6	754,5	649,7	587,8	549,5	524,7	495,1

Sails Limitations
Genoas 0 Jibs 4 Spinnakers 3
Spinnaker configuration Symmetric

Storm Sails Areas
Heavy Weather Jib 29,39
Storm Jib (JL=9,59) 10,89
Storm Trysail 11,95

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	44,2°	43,3°	41,0°	39,4°	38,4°	37,9°	37,7°
Beat VMG	3,33	4,08	4,61	4,88	5,05	5,16	5,24
52°	5,19	6,22	6,81	7,15	7,31	7,41	7,48
60°	5,56	6,52	7,10	7,45	7,58	7,66	7,73
75°	5,91	6,86	7,45	7,65	7,90	8,05	8,20
90°	6,24	7,16	7,66	7,86	8,01	8,14	8,62
110°	6,11	6,98	7,55	7,92	8,35	8,61	8,96
120°	5,75	6,74	7,37	7,76	8,17	8,64	9,34
135°	4,97	6,16	6,91	7,45	7,79	8,17	9,09
150°	4,14	5,25	6,22	6,89	7,41	7,75	8,48
Run VMG	3,59	4,55	5,40	6,12	6,72	7,23	7,89
Gybe Angles	142,5°	146,6°	152,5°	163,6°	169,5°	173,1°	175,6°

Owner
SEB Liising AS
Tallinn
Estonia
ESS Kalev JK
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

BOAT	
Name RED DREAM	Sail Nr EST 545
File Est0545.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 09.08.2007		SG 1,0020
FFM 1,358	FF 1,366	SFFP 0,260
FAM 1,056	FA 1,062	SAFP 10,144
W1 63,000	PD1 505,2	WD 11,720
W2 63,000	PD2 504,8	GSA 1,0
W3 63,000	PD3 504,9	RSA 1,0
W4 63,000	PD4 503,2	PLM 9000,
Maximum beam station from stem		7,126
RM Measured / Default		115,2 / 137,1
Limit of positive stability		111,0°
Stability Index		113,4
Freeboard at mast at 4,400		1,233



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IMS Measurement
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RIG			
Forestay Tension Aft	Spreaders 2		
Inner Forestay None Fitted	Runners 0		
Carbon Mast No	Jumpers None		
Taper Hollows No	w/o Backstay No		
P 14,550	E 4,695	MDT1 0,105	TL 2,760
IG 14,755	J 4,400	MDL1 0,210	MWT
ISP 14,805	SFJ	MDT2	MCG
SPS	SPL 4,400	MDL2	CPW
BAS 1,550	TPS	MW	BD
BAL	FSP 0,052	GO	BWT

HEAVY ITEMS			
Bow Thruster No	Generator No	Air Condition No	
Windlass No	Jib Furler No	Desalinator No	
Heavy Deck No	Main Furler No		
Headliners No	Water Heater No		
Anchor Weight 11,0	Heavy Items Adjustment	0,0010	
Anchor LCG 0,50	Total Gyradius Adjustment	0,0270	

PROPELLER		
Installation Strut Drive	PRD 0,410	
Type Folding	PBW	
Twin Screw No	PIPA 0,0013	
ST1 0,065	ST3 0,180	ST5
ST2 0,180	ST4 0,110	EDL

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MIZZEN RIG AND SAILS	
N/A	

WATER BALLAST	
N/A	

COMMENTS	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)								
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Formula
	0,250	0,94	1,68	2,90	3,86	19,50	39,65	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG	
	0,10	0,65	1,20	2,35	3,45	14,62	4,55	$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
Symmetric	SL	SMG	SF					
	14,80	7,90	7,71				96,96	$SL \cdot (SF + 4 \cdot SMG) / 6$

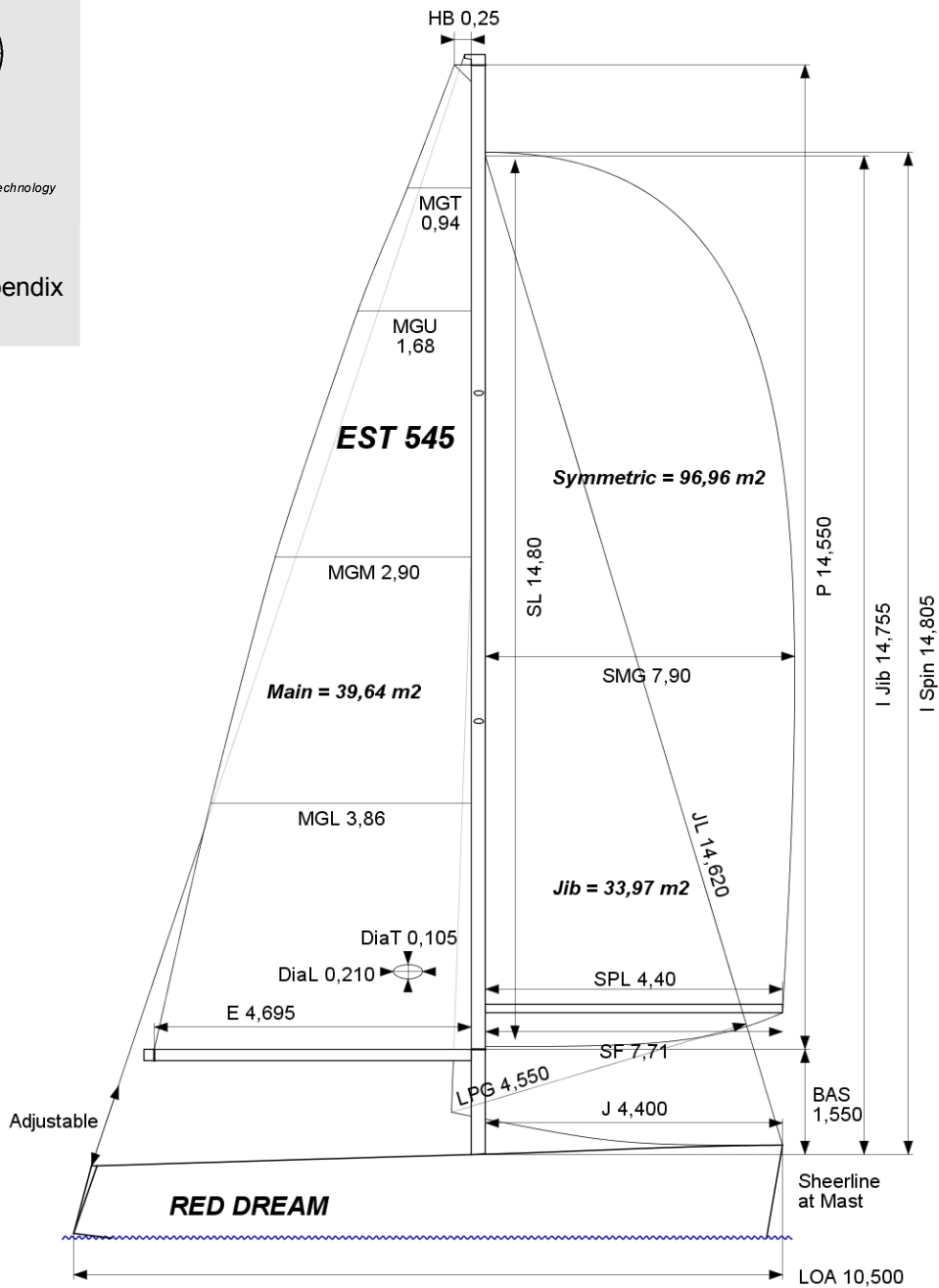
MEASUREMENT INVENTORY			
Measurer Veiko Rosme EST 2			
Date 10.05.2009			
Comment			
Id	Item	Weight	Distanc Description
1	Anchor	11,0	0,50 Anchor in
Id	Item	Maker	Model
1	Engine	Volvo Penta	D1-30
Id	Item	Weight	Description

MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capct	Dist.	Condt Description
1	Liquid Tank	Diesel	Plastic	88,0	8,00	19,0
2	Liquid Tank	Water	Plastic	150,0	4,50	0,0
3	Liquid Tank	Waste	Plastic	60,0	8,00	0,0
Id	Item	Weight	Distanc Description			
1	Battery	5,40	2 x 80 Ah			



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measur	Meas.Dat	Manufacturer	Material	Comment
1	0,250	0,94	1,68	2,90	3,86	19,50	39,64	VR	10.05.2009	North	Unknown	

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measur	Meas.Dat	Manufacturer	Material	Comment
1	0,10	0,65	1,20	2,35	3,45	4,55	14,62	103%	33,98	VR	10.05.2009	North	Unknown	
2	0,10	0,63	1,20	2,26	3,34	4,54	14,63	103%	33,28	VR	10.05.2009	North	Unknown	

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measur	Meas.Dat	Manufacturer	Material	Comment
1	14,83	7,83	7,78	96,64	VR	10.05.2009	Unknown	must	
2	14,80	7,90	7,71	96,96	VR	10.05.2009	Unknown	valge	

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measur	Meas.Dat	Manufacturer	Material	Comment
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