

BOAT Name LADYKILLER Sail Nr SWE 58	GPH 546.9	HULL Length Overall 12.960m Maximum Beam 3.910m Displacement 8,179kg Draft 2.765m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class SWAN 42 Designer CLUB FRERS Builder NAUTOR Series 01/2006 Age Age Allowance 0.292% Offset File SWAN42CS.OFF - 19/02/2015 20:04:48 Measurement by MIKAEL LINDQVIST - 20/05/2015		IMSL 11.959m VCGD -0.392m Sink 24.96kg/mm RL 11.382m VCGM -0.309m WS 33.85m²



World Leader in Rating Technology

2015
ORC International
Certificate

Rating Office

Offshore
Racing
Congress



World Leader in Rating Technology

SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	533.9			597.4		
Time On Time	1.1238			1.1299		
Performance Line	0.990	117.6		1.006	233.9	
Triple Number	Low 1.0835	Medium 1.3894	High 1.5585	Low 0.8300	Medium 1.1255	High 1.2953

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	915.6	755.7	666.2	625.9	604.9	591.7	585.9
52°	598.8	501.3	459.3	444.6	437.2	432.8	427.4
60°	563.6	478.9	447.1	432.7	425.1	420.2	414.6
75°	534.6	464.4	437.9	420.7	406.4	397.8	389.6
90°	534.6	455.1	439.9	421.6	404.0	386.7	364.5
110°	535.6	457.4	425.0	403.8	390.2	380.8	361.3
120°	558.5	463.1	428.4	403.7	383.1	370.9	347.7
135°	624.5	506.3	453.2	427.4	403.2	377.4	325.5
150°	760.1	609.7	512.5	463.1	435.6	414.0	366.8
Run VMG	877.7	704.0	591.8	530.4	487.5	457.9	415.5

Certificate

Number
ORC Ref **SSF00001332**
Issued On **31/08/2015**
VPP Ver. **2015 1.01**
Valid until **31/12/2015**

Crew Weight

Declared **885kg**
Default* **866kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	585.1	1.0255
Non Spin OSN	568.7	1.0550
N/S Perf. Line	72.0	0.847

Selected Courses							
Windward / Leeward	896.6	729.8	629.0	578.1	546.2	524.8	500.7
Circular Random	749.6	606.9	530.9	487.0	459.7	441.4	416.5
Ocean for PCS	799.2	634.0	542.6	486.8	449.5	421.9	379.4
Non Spinnaker	820.5	656.4	566.9	513.7	480.2	457.9	429.9

Sails Limitations

Headsails	Spinnakers
7	4

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	42.9°	42.0°	40.4°	38.1°	37.0°	36.1°	36.3°
Beat VMG	3.93	4.76	5.40	5.75	5.95	6.08	6.14
52°	6.01	7.18	7.84	8.10	8.23	8.32	8.42
60°	6.39	7.52	8.05	8.32	8.47	8.57	8.68
75°	6.73	7.75	8.22	8.56	8.86	9.05	9.24
90°	6.73	7.91	8.18	8.54	8.91	9.31	9.88
110°	6.72	7.87	8.47	8.92	9.23	9.45	9.96
120°	6.45	7.77	8.40	8.92	9.40	9.70	10.35
135°	5.76	7.11	7.94	8.42	8.93	9.54	11.06
150°	4.74	5.90	7.02	7.77	8.26	8.70	9.81
Run VMG	4.10	5.11	6.08	6.79	7.38	7.86	8.66
Gybe Angles	140.4°	144.4°	145.3°	154.6°	160.8°	169.0°	169.3°

Class Division Length
CDL = **11.671**

Storm Sails Areas

Heavy Weather Jib **44.35**
Storm Jib (JL=11.78) **16.43**
Storm Triesail **17.48**

Owner

BOAT	
Name LADYKILLER	Sail Nr SWE 58
File 6249.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 20/05/2015	SG	1.0050
FFM 1.408	FF 1.429	SFFP 0.474
FAM 1.097	FA 1.102	SAFP 12.543
W1 115.00	PD1 369.5	WD 9.288
W2 115.00	PD2 377.1	GSA 1.0
W3 115.00	PD3 368.1	RSA 1.0
W4 115.00	PD4 374.7	PLM 9000.0
LCF from stem on CL / on sheer		7.186 / 7.437
Maximum beam station from stem		8.347
RM Measured		225.9kg·m
RM Default		221.5kg·m
Limit of positive stability / Stab.Index		133.4° / 137.1
Freeboard at mast at 5.391		1.212



World Leader in Rating Technology

2015 Measurements Datasheet

RIG				
Forestay Tension Aft	Spreaders 2			
Inner Stay None Fitted	Runners 0			
Carbon Mast Yes	Jumper Struts None			
Taper Hollows	Jib Furler			
Fiber Rigging	Main Furler			
Lenticular Rigging	Without Backstay			
Articulated Bowsprit No				
P 17.240	E 5.793	MDT1 0.137	MW	0.262
IG 18.017	J 5.010	MDL1 0.250	GO	0.292
ISP 19.487	SFJ 0.381	MDT2 0.104	BD	0.203
BAS 1.967	SPL	MDL2 0.172	MWT	
FSP 0.076	TPS 6.856	TL 1.190	MCG	

Certificate	
Number	
ORC Ref	SSF00001332
Issued On	31/08/2015
VPP Ver.	2015 1.01
Valid until	31/12/2015

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD	0.440
Type Folding 2 blades	PBW	0.110
Twin Screw	PIPA	0.0040
ST1 0.065	ST3 0.180	ST5 0.280
ST2 0.180	ST4 0.110	EDL 1.630

COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



Invalid for Racing

World Leader In Rating Technology

SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	Area	Area (r)	Formula	
	0.060	1.45	2.40	3.75	4.82	60.37	61.71	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Symmetric									
Not Available									
Asymmetric	SLU	SLE	ASL	AMG	ASF				
	22.40	18.18	20.29	10.95	11.40	186.67	ASL · (ASF + 4·AMG) / 6		

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
0.09	0.78	1.48	2.72	3.96	5.36	18.35	49.86	Y		23/05/2014	Carbon	
0.10	0.80	1.48	2.73	3.93	5.36	18.24	49.53	Y		14/05/2015	Unknow	3Di ARMID
0.10	0.66	1.26	2.49	3.79	5.27	18.33	46.97	Y		11/05/2015	Carbon	
0.09	0.54	1.02	2.00	2.98	4.00	15.44	31.01		Y	08/05/2015	Polyest	
0.08	0.34	0.70	1.40	2.22	3.05	10.60	15.59			23/05/2015	Dacron	

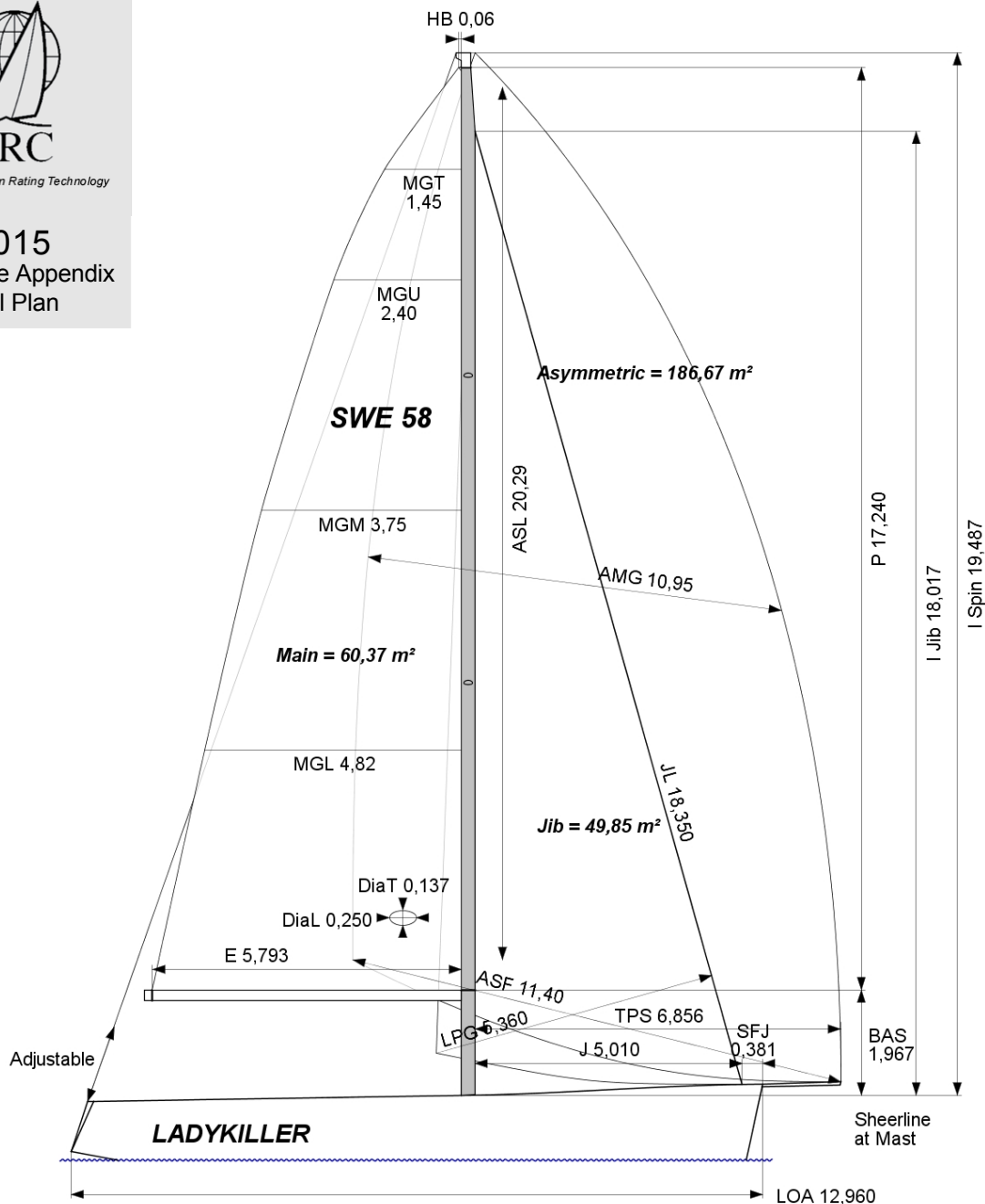
MEASUREMENT INVENTORY				
Measurer MIKAEL LINDQVIST 1129				
Date 20/05/2015				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
E1	Engine	VOLVO PENTA	D2-40	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

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>
H1	Tank	HOLDING	PVC	20.0	4.50	0.00	0-0
F2	Tank	FUEL	PVC	70.0	5.70	0.00	70-0
F1	Tank	FUEL	PVC	70.0	5.70	0.00	70-0
W2	Tank	WATER	PVC	160.0	7.00	0.00	0-0
W1	Tank	WATER	PVC	160.0	7.00	0.00	0-0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
N1	Ballast			NONE			
B1	Battery	6.40	0.00	2 X 160 Ah			
M3	Misc	7.0	7.40	0.00 HEATER			
M2	Misc	10.0	11.30	0.00 AUTOPILOT			
M1	Misc	12.0	7.50	0.40 INVERTER			



World Leader in Rating Technology

2015
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
m1	0.060	1.45	2.40	3.75	4.82	60.37	SWE957	27/05/2014	NORTH	Carbon	

HEADSAILS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
LIGHT	0.09	0.78	1.48	2.72	3.96	5.36	18.35	107%	49.86	Y		SWE957	23/05/2014	NORTH	Carbon	
MEDI	0.10	0.80	1.48	2.73	3.93	5.36	18.24	107%	49.53	Y		SWE957	14/05/2015	NORTH	Unknow	3Di ARMID
HEAV	0.10	0.66	1.26	2.49	3.79	5.27	18.33	105%	46.97	Y		SWE957	11/05/2015	NORTH	Carbon	
STAY	0.09	0.54	1.02	2.00	2.98	4.00	15.44	80%	31.01		Y	SWE957	08/05/2015	NORTH	Polyest	
STOR	0.08	0.34	0.70	1.40	2.22	3.05	10.60	61%	15.59			SWE957	23/05/2015	NORTH	Dacron	

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
----	----	-----	----	------	----------	-----------	-------------	----------	---------

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A2	22.40	18.18	20.29	10.95	11.40	186.67	asym	SWE957	06/05/2014	NORTH	Nylon	
A1	21.53	17.96	19.75	10.82	11.38	179.88	asym	SWE957	15/05/2015	NORTH	Nylon	
A3	21.17	17.94	19.55	9.31	11.47	158.75	asym	SWE957	09/06/2015	NORTH	Nylon	
A5	19.60	16.50	18.05	8.13	10.70	130.02	asym	SWE957	23/05/2014	NORTH	Nylon	