

BOAT Name TØSEN Sail Nr GER 5996	GPH 587.1	HULL Length Overall 10.640m Maximum Beam 3.268m Displacement 3,464kg Draft 2.234m IMS Reg. Division Performance Dynamic Allowance 0.054% Fwd Accommodation No Hull Construction Cored Carbon Rudder No Crew Arm Extension 0.00
GENERAL Class MAXFUN 35 Designer SIMONIS / VOOGD Builder MAXFUN BOATS BV Series 06/2002 Age 06/2002 Age Allowance 0.487% Offset File MAXFUN35.OFF - 22/04/2005 11:11:24 Measurement by - 16/06/2018		IMSL 9.969m VCGD -0.424m Sink 16.47kg/mm RL 9.617m VCGM -0.182m WS 22.35m² LSM0 9.570m Displacement/Length ratio 3.9522



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	571.0			641.5		
Time on Time	1.0507			1.0522		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	673.4	520.7	458.5	874.0	642.4	560.4
Time on Time	1.0024	1.2963	1.4721	0.7723	1.0508	1.2045

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	978.4	800.7	709.0	680.9	669.8	661.0	653.0
52°	639.6	535.4	496.6	484.2	478.6	475.7	466.7
60°	602.9	515.6	484.4	469.6	462.3	458.2	446.0
75°	576.1	502.4	473.8	450.8	434.3	426.0	418.0
90°	585.9	502.6	472.6	446.6	420.6	400.6	381.0
110°	597.3	498.1	459.6	426.3	405.6	388.0	360.4
120°	616.9	506.5	465.5	428.2	393.3	368.4	338.0
135°	688.9	550.5	488.5	454.1	418.4	382.8	312.1
150°	826.9	660.1	548.4	489.5	457.7	425.2	359.3
Run VMG	954.8	762.2	633.3	556.5	508.8	474.1	415.0

Certificate
Number **141084**
ORC Ref **GER20041554**
Issued On **04/07/2019**
VPP Ver. **2019 1.01**
Valid until **01/01/2020**

Crew Weight
Default **647kg**
Maximum **750kg**
Minimum* **563kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	605.8	0.9904
Double H.OSN	592.1	1.0134
Non Spin GPH	620.7	0.9667
Non Spin OSN	603.3	0.9945

Selected Courses							
Windward / Leeward	966.6	781.5	671.1	618.7	589.3	567.5	534.0
Circular Random	809.5	653.4	569.8	520.9	489.7	467.8	436.3
Coastal / Long Distance	965.4	734.4	607.6	540.5	502.0	468.8	414.9
Non Spinnaker	869.5	695.6	601.4	545.7	510.5	486.2	452.4

Sails Limitations

Headsails	Spinnakers
5	3

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	42.7°	41.6°	39.4°	38.0°	38.0°	37.5°	37.7°
Beat VMG	3.68	4.50	5.08	5.29	5.37	5.45	5.51
52°	5.63	6.72	7.25	7.43	7.52	7.57	7.71
60°	5.97	6.98	7.43	7.67	7.79	7.86	8.07
75°	6.25	7.17	7.60	7.99	8.29	8.45	8.61
90°	6.14	7.16	7.62	8.06	8.56	8.99	9.45
110°	6.03	7.23	7.83	8.44	8.88	9.28	9.99
120°	5.84	7.11	7.73	8.41	9.15	9.77	10.65
135°	5.23	6.54	7.37	7.93	8.60	9.40	11.54
150°	4.35	5.45	6.56	7.36	7.86	8.47	10.02
Run VMG	3.77	4.72	5.68	6.47	7.08	7.59	8.67
Gybe Angles	139.7°	146.5°	147.9°	156.2°	173.7°	180.0°	180.0°

Class Division Length
CDL = **9.794**

Storm Sails Areas
Heavy Weather Jib **23.19**
Storm Jib (JL=8.52) **8.59**
Storm Trysail **11.35**

Owner

BOAT	
Name TØSEN	Sail Nr GER 5996
File GER5996	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners 0
Carbon Mast Yes	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 13.300	E 4.876 MDT1 0.103 MW 0.160
IG 13.105	J 4.230 MDL1 0.160 GO 0.160
ISP 13.205	SFJ 0.000 MDT2 0.103 BD 0.180
BAS 1.630	SPL 4.210 MDL2 0.141 MWT 121.50
FSP 0.066	TPS TL 0.420 MCG 5.375

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 23/09/2013		SG 1.0150	
FFM 1.256	FF 1.259	SFFP 1.030	
FAM 0.939	FA 0.942	SAFP 10.400	
W1 50.0	PD1 217.0	WD 10.860	
W2 50.0	PD2 217.0	GSA 36.3	
W3 50.0	PD3 217.0	RSA 6221.1	
W4 50.0	PD4 217.0	PLM 2100.0	
LCF from stem on CL / on sheer		5.957 / 6.173	
Maximum beam station from stem		6.500	
RM Measured		91.4kg-m	
RM Default		92.3kg-m	
Limit of positive stability / Stab.Index		126.5° / 123.1	
Freeboard at mast at 4.230		1.120	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.381		
Type Folding 2 blades	PBW 0.000		
Twin Screw No	PIPA 0.0034		
ST1 0.038	ST3 0.180	ST5 0.290	
ST2 0.180	ST4 0.110	EDL 1.700	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.100	1.07	1.93	3.23	4.12	39.22	40.20	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	13.60	13.60	13.60	7.82	7.73	88.42		SL · (SFL + 4·SHW) / 6	
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
0.10	0.62	1.22	2.21	3.23	4.31	13.20	29.12	Y		22/03/2017	Carbon	Light 2017
0.10	0.65	1.19	2.20	3.22	4.30	13.19	28.99	Y		05/06/2018	Carbon	Medium 2018
0.19	0.75	1.35	2.30	3.25	4.26	12.73	28.82	Y		01/03/2015	Carbon	WINDSEEKER
0.10	0.57	1.07	2.07	3.08	4.07	13.15	27.23	Y		16/01/2014	Dyneem	G3 medium
0.00	0.43	0.92	1.92	2.96	4.00	12.90	25.24	Y		16/01/2014	Kevlar	G3,5 heavy

MEASUREMENT INVENTORY				
Measurer 154				
Date 23/09/2013				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	YANMAR	18HP	
Id	Item	Weight Description		

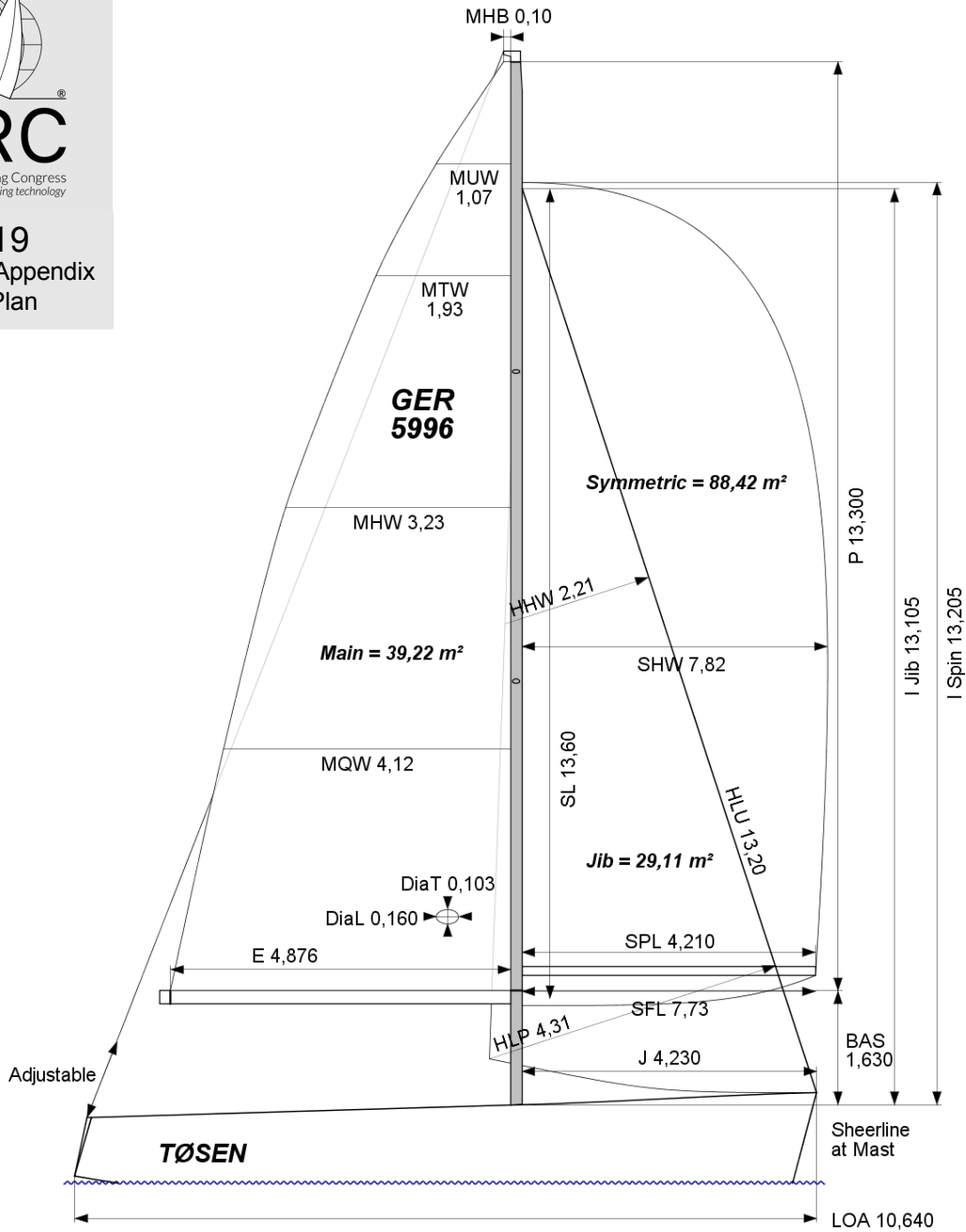
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
2	Tank	Fresh Water	Plastik	25.0	6.50		0-0
1	Tank	Fuel	S/S	60.0	6.70		20-0
Id	Item	Weight	Distance	VCG Description			
1	Battery	60.0	6.73	2x Vetus 80Ah			
1	Misc	13.0	7.00	Boiler, 10l			



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SAILS INVENTORY

MAINSAIL (3)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
150288	0.10	1.07	1.93	3.23	4.12	39.22		16/01/2014	OLEU	Dyneema	ICE					
163405	0.67	1.28	1.96	3.07	4.00	39.19		05/06/2018	OLEU	Carbon						
HEADSAILS (5)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
163057	0.10	0.62	1.22	2.21	3.23	4.31	13.20	102%	29.12	Y			22/03/2017	OLEU	Carbon	Light 2017
163406	0.10	0.65	1.19	2.20	3.22	4.30	13.19	102%	28.99	Y			05/06/2018	OLEU	Carbon	Medium 2018
154846	0.19	0.75	1.35	2.30	3.25	4.26	12.73	101%	28.82	Y			01/03/2015	OLEU	Carbon	WINDSEEKER
150289	0.10	0.57	1.07	2.07	3.08	4.07	13.15	96%	27.23	Y			16/01/2014	OLEU	Dyneem	G3 medium
150290	0.00	0.43	0.92	1.92	2.96	4.00	12.90	95%	25.24	Y			16/01/2014	OLEU	Kevlar	G3,5 heavy
SYMMETRIC SPINNAKERS (4)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
159735	13.60	13.60	13.60	7.82	7.73	88.43		26/05/2016	OLEU	Nylon	LIGHT 2016					
159722	13.52	13.52	13.52	7.78	7.74	87.57		26/05/2016	OLEU	Nylon	MEDIUM 2016					
DK	12.85	12.85	12.85	7.48	7.30	79.72		21/01/2014	ELVSTROEM	Nylon						
149519	12.90	12.90	12.90	6.92	7.32	75.25		30/04/2013	OLEU	Nylon						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				