

BOAT Name CHARLOTTA Sail Nr FIN-2674	GPH 747.3	HULL Length Overall 8.319m Maximum Beam 2.794m Displacement 2 359kg Draft 1.421m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.347% Hull Construction Solid Carbon Rudder No Crew Arm Extension IMSL 7.167m VCGD -0.102m Sink 10.38kg/mm RL 5.943m VCGM -0.004m WS 14.36m² LSM0 7.026m Displacement/Length ratio 6.8015
GENERAL Class FINN EXPRESS 83 Designer EIVIND STILL Builder NYKRA Series 05.1981 Age 01.1982 Age Allowance 0.487% Offset File L5280.BOF - 11.03.1996 16.40.30 Measurement by - 27.06.2011		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	724.4			807.9		
Time on Time	0.8283			0.8355		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	868.2	658.2	584.0	1127.6	813.3	700.9
Time on Time	0.7775	1.0255	1.1558	0.5986	0.8300	0.9631

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1287.4	1067.2	942.0	866.2	838.5	828.7	837.6
52°	829.9	697.3	627.3	596.5	582.9	577.8	576.6
60°	779.5	657.6	605.0	580.7	566.7	560.0	556.7
75°	745.3	631.5	588.8	566.4	549.3	535.5	522.5
90°	753.4	629.9	578.2	551.7	532.1	521.4	494.5
110°	763.7	629.4	575.9	546.6	519.5	494.8	461.6
120°	793.3	649.2	584.8	554.2	527.1	500.3	454.4
135°	898.1	721.8	617.8	574.6	547.0	520.4	470.4
150°	1047.7	821.6	689.2	608.7	571.8	546.0	496.6
Run VMG	1209.7	946.2	793.1	685.2	614.6	576.5	526.7
Selected Courses							
Windward / Leeward	1248.6	1006.7	867.5	775.7	726.5	702.6	682.1
Circular Random	1039.4	834.8	724.2	659.7	620.6	595.9	566.8
Coastal / Long Distance	1244.7	943.3	779.0	679.4	630.1	595.6	537.8
Non Spinnaker	1088.3	869.7	750.6	680.8	638.2	611.5	581.0

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	44.6°	43.5°	42.6°	41.3°	40.5°	40.3°	41.3°
Beat VMG	2.80	3.37	3.82	4.16	4.29	4.34	4.30
52°	4.34	5.16	5.74	6.03	6.18	6.23	6.24
60°	4.62	5.47	5.95	6.20	6.35	6.43	6.47
75°	4.83	5.70	6.11	6.36	6.55	6.72	6.89
90°	4.78	5.72	6.23	6.52	6.77	6.90	7.28
110°	4.71	5.72	6.25	6.59	6.93	7.28	7.80
120°	4.54	5.55	6.16	6.50	6.83	7.20	7.92
135°	4.01	4.99	5.83	6.27	6.58	6.92	7.65
150°	3.44	4.38	5.22	5.91	6.30	6.59	7.25
Run VMG	2.98	3.80	4.54	5.25	5.86	6.24	6.84
Gybe Angles	149.0°	153.0°	156.0°	166.0°	180.0°	180.0°	180.0°

Rating Office

Certificate
Number 02674 ORC Ref N/A Issued On 14.01.2020 VPP Ver. 2020 1.00 Invalid for Racing
Crew Weight
Default 416kg Maximum 380kg Minimum* 285kg *when applied by the NoR and SI Non Manual Pwr No
Special Scoring
ToD ToT Non Spin GPH 775.2 0.7740 Non Spin OSN 746.5 0.8037

Sails Limitations
Headsails 5 Spinnakers 4

Class Division Length
CDL = 6.552

Storm Sails Areas
Heavy Weather Jib 9.27 Storm Jib (JL=5.39) 3.44 Storm Trysail 5.81

Owner

BOAT										INCLINING TEST AND FREEBOARDS															
Name CHARLOTTA					Sail Nr FIN-2674					Inclining Test Current Inclining															
File L-2674					Data in meters/kilograms					Flotation date 12.05.2005					SG 1.0050										
RIG										FFM 0.997 FF 1.012 SFFP 0.506 FAM 0.793 FA 0.802 SAFF 7.893															
Forestay Tension Aft Spreaders 1 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No										W1 40.4 PD1 261.7 WD 7.520 W2 40.4 PD2 261.7 GSA 0.0 W3 40.4 PD3 261.7 RSA 0.6 W4 40.4 PD4 261.7 PLM 2000.0															
P 9.250 E 3.585 MDT1 0.095 MW 0.125 IG 8.237 J 2.720 MDL1 0.125 GO 0.140 ISP 8.307 SFJ 0.100 MDT2 0.080 BD 0.082 BAS 1.177 SPL 2.770 MDL2 0.090 MWT 41.30 FSD 0.000 TPS TL 2.380 MCG 3.825										LCF from stem on CL / on sheer 4.509 / 4.711 Maximum beam station from stem 4.666 RM Measured 40.6kg·m RM Default 37.1kg·m Limit of positive stability / Stab.Index 116.2° / 112.3 Freeboard at mast at 2.820 0.916															
MIZZEN RIG AND SAILS										PROPELLER															
N/A										Installation Shaft exposed PRD 0.378 Type Folding 2 blades PBW 0.095 Twin Screw No PIPA 0.0043															
										PSA 24.000 PHL 0.115 ST3 0.080 ESL 0.610 PSD 0.025 ST1 0.025 ST4 0.045 PHD 0.065 ST2 0.080 ST5 0.110															
COMMENTS										MOVABLE BALLAST															
										N/A															
										CENTERBOARD															
										N/A															
SAILS (Maximum Areas)																									
Mainsail						MHB		MUW		MTW		MHW		MQW		Area		Area (r)		Formula					
						0.15		0.77		1.42		2.39		3.07		20.21		20.78		P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)					
Symmetric						SLU		SLE		SL		SHW		SFL		33.17				SL · (SFL + 4·SHW) / 6					
						8.07		8.07		8.07		4.94		4.90											
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		Flying		Meas.Date		Material		Comment	
0.05		0.53		1.04		2.07		3.12		4.17		8.30		17.30		No		27.06.2011		Kevlar		D4			
0.05		0.36		0.70		1.40		2.19		2.95		8.21		11.90		No		27.06.2011		Dacron					



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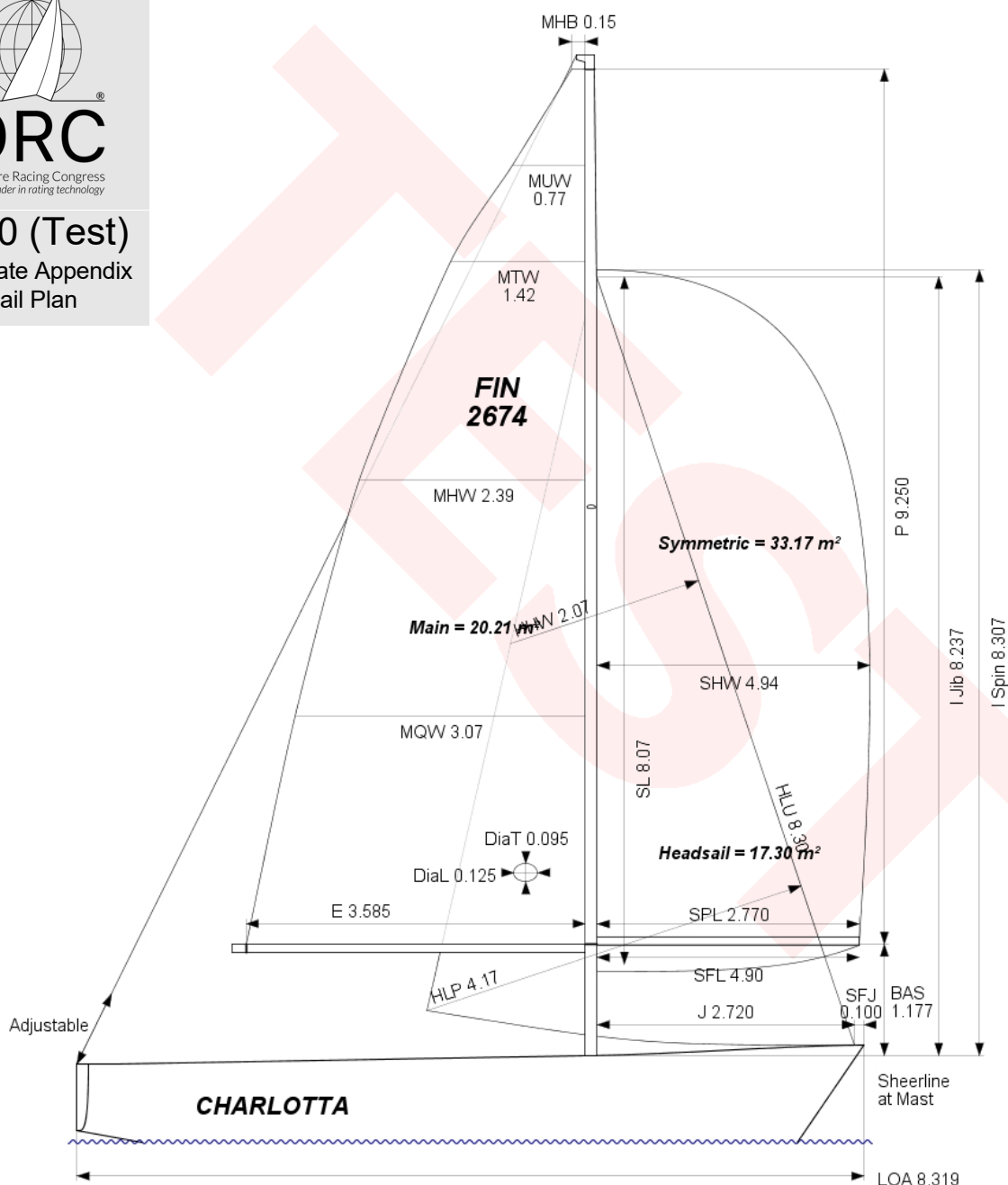
Number **02674**
ORC Ref **N/A**
Issued On **14.01.2020**
VPP Ver. **2020 1.00**
Invalid for Racing



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.15	0.77	1.42	2.39	3.07	20.22		27.06.2011	WB-Sails	Kevlar	D4

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Overlap	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0.05	0.53	1.04	2.07	3.12	4.17	8.30	153%	17.30		No		27.06.2011	WB-Sails	Kevlar	D4
G3	0.05	0.36	0.70	1.40	2.19	2.95	8.21	108%	11.90		No		27.06.2011	WB-Sails	Dacron	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
AP	8.07	8.07	8.07	4.94	4.90	33.17		27.06.2011	WB-Sails	Nylon	0.9oz

ASYMMETRIC SPINNAKERS (0)

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