

BOAT Name Cheyenne Sail Nr SWE 622	GPH 598.4	HULL Length Overall 9.435m Maximum Beam 3.038m Displacement 2,384kg Draft 2.147m IMS Reg. Division Performance Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Light Carbon Rudder Yes Crew Arm Extension IMSL 8.934m VCGD -0.298m Sink 12.00kg/mm RL 9.228m VCGM -0.258m WS 16.14m² LSM0 8.722m Displacement/Length ratio 3.5930
GENERAL Class Farr 30 Designer Farr Builder Ovington Series 01/1996 Age 06/1996 Age Allowance 0.487% Offset File FARR30.OD.OFF - 24/05/2009 23:54:20 Measurement by - 22/06/2016		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	583.3			652.1		
Time on Time	1.0286			1.0351		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	672.1	536.0	473.0	864.5	655.0	575.4
Time on Time	1.0043	1.2594	1.4272	0.7808	1.0306	1.1730

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	949.1	786.4	717.7	695.1	685.3	673.9	668.5
52°	627.4	543.0	516.8	506.0	500.1	497.0	486.1
60°	594.0	529.4	504.8	490.5	482.3	477.4	463.8
75°	571.5	519.4	492.3	468.8	452.6	443.7	434.3
90°	579.6	518.2	487.8	462.4	436.3	416.4	396.3
110°	596.8	516.8	478.6	442.8	416.1	397.0	367.9
120°	618.8	525.2	485.9	446.1	408.8	378.3	341.6
135°	694.1	562.2	510.8	474.9	436.2	397.1	320.5
150°	827.9	663.9	560.9	511.1	477.8	442.6	370.5
Run VMG	955.9	766.6	646.5	574.5	524.7	492.2	427.8

Certificate
Number **622F30**
ORC Ref **SWE20190337**
Issued On **30/07/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **566kg**
Maximum **610kg**
Minimum* **458kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Double H.GPH **618.0 0.9709**
Double H.OSN **606.4 0.9895**
Non Spin GPH **627.9 0.9556**
Non Spin OSN **611.1 0.9818**

Selected Courses							
Windward / Leeward	952.5	776.5	682.1	634.8	605.0	583.0	548.1
Circular Random	811.6	661.7	582.0	535.2	504.7	482.5	449.1
Coastal / Long Distance	952.9	733.1	620.7	558.1	519.1	484.0	427.3
Non Spinnaker	863.8	698.3	609.6	557.4	523.9	500.2	465.5

Sails Limitations
Headsails **5** Spinnakers **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	41.8°	40.3°	37.3°	36.4°	36.0°	35.2°	35.5°
Beat VMG	3.79	4.58	5.02	5.18	5.25	5.34	5.39
52°	5.74	6.63	6.97	7.11	7.20	7.24	7.41
60°	6.06	6.80	7.13	7.34	7.46	7.54	7.76
75°	6.30	6.93	7.31	7.68	7.95	8.11	8.29
90°	6.21	6.95	7.38	7.79	8.25	8.65	9.08
110°	6.03	6.97	7.52	8.13	8.65	9.07	9.79
120°	5.82	6.85	7.41	8.07	8.81	9.52	10.54
135°	5.19	6.40	7.05	7.58	8.25	9.07	11.23
150°	4.35	5.42	6.42	7.04	7.53	8.13	9.72
Run VMG	3.77	4.70	5.57	6.27	6.86	7.31	8.41
Gybe Angles	140.8°	146.7°	151.2°	160.5°	180.0°	180.0°	180.0°

Class Division Length
CDL = **9.081**

Storm Sails Areas
Heavy Weather Jib **18.31**
Storm Jib (JL=7.57) **6.78**
Storm Triesail **9.61**

Owner

BOAT				
Name Cheyenne	Sail Nr SWE 622			
File SWE622 Farr30	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 12.365	E 4.440	MDT1 0.083	MW 0.143	
IG 11.636	J 3.315	MDL1 0.143	GO 0.145	
ISP 11.681	SFJ 0.111	MDT2 0.063	BD 0.176	
BAS 1.256	SPL 3.400	MDL2 0.105	MWT 68.80	
FSP 0.056	TPS	TL 1.925	MCG 4.755	

INCLINING TEST AND FREEBOARDS				
Inclining Test Current Inclining				
Flotation date 27/05/2019			SG 1.0000	
FFM 1.011	FF 1.018	SFFP 0.222		
FAM 0.761	FA 0.765	SAFP 8.685		
W1 41.1	PD1 649.7	WD 10.003		
W2 41.1	PD2 647.3	GSA 1.0		
W3 41.1	PD3 654.5	RSA 1.0		
W4 41.1	PD4 648.9	PLM 9000.0		
LCF from stem on CL / on sheer			5.277 / 5.473	
Maximum beam station from stem			5.825	
RM Measured			49.8kg-m	
RM Default			54.3kg-m	
Limit of positive stability / Stab.Index			127.2° / 121.2	
Freeboard at mast at 3.426			0.926	



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MIZZEN RIG AND SAILS				
N/A				

PROPELLER				
Installation Strut	PRD 0.355			
Type Folding 2 blades	PBW 0.094			
Twin Screw No	PIPA 0.0032			
ST1 0.050	ST3 0.180	ST5 0.225		
ST2 0.180	ST4 0.112	EDL 1.255		

Certificate				
Number 622F30				
ORC Ref SWE20190337				
Issued On 30/07/2019				
VPP Ver. 2019 1.01				
Valid until 31/12/2019				

COMMENTS				
fd #6278				

MOVABLE BALLAST				
N/A				

CENTERBOARD				
N/A				

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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.180	1.10	1.96	3.16	3.95	35.22	36.32	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	11.90	11.90	11.90	6.55	6.05	63.96		SL · (SFL + 4·SHW) / 6	
Asymmetric	SLU	SLE	SL	SHW	SFL				
	11.92	11.54	11.73	5.31	6.98	55.17		AS · (SFL + 4·SHW) / 6	

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
0.06	0.51	0.96	1.79	2.61	3.45	11.74	20.82	Y		14/06/2018	Carbon	OSE2546-001
0.06	0.50	0.95	1.78	2.59	3.44	11.72	20.66	Y		11/03/2016	Carbon	OUS108854-1
0.07	0.50	0.95	1.77	2.59	3.43	11.67	20.53	Y		21/06/2018	Carbon	OSE1030-002
0.06				1.54	3.06	10.60	16.46			07/03/2016	Unknow	
0.08	0.36	0.67	1.27	1.84	2.46	10.14	12.76	Y		05/07/2019	Polyest	OSE3090-1

MEASUREMENT INVENTORY				
Measurer 1129				
Date 22/06/2016				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
e	Engine	Yanmar	1GM10, 10hp	
Id	Item	Weight Description		

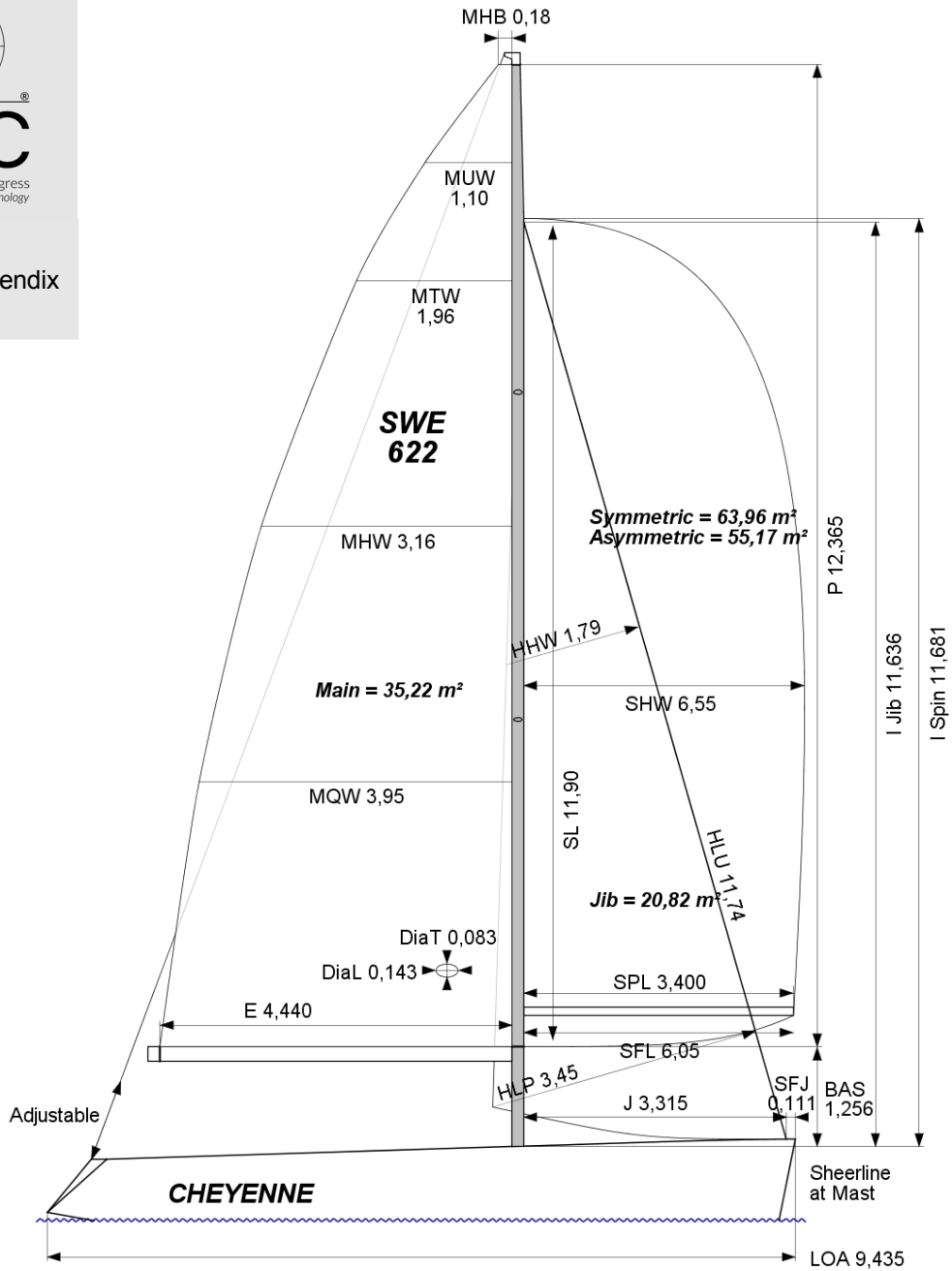
MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
w1	Tank	Water	Inflatable	55.0	4.40	0.00	0-0	
f1	Tank	Fuel	Plastic	25.0	6.60	0.20	0-0	
Id	Item	Weight	Distance	VCG Description				
b3	Ballast	63.2	5.10	lead, 32,1 + 31,1				
b2	Ballast	64.4	4.60	lead, 22,3 + 21,0 + 21,1 kg				
b1	Ballast	24.6	4.30	lead				
b1	Battery		6.50	0.20	80 Ah			
b2	Battery		6.20	0.20	35 Ah			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
MNI-3 -19	0.18	1.10	1.96	3.16	3.95	35.23		20/02/2019	North	Carbon	OSE2894-1

HEADSAILS (5)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
Jib Mi5 -	0.06	0.51	0.96	1.79	2.61	3.45	11.74	104%	20.82	Y			14/06/2018	North Sails	Carbon	OSE2546-001
Jib Li-2 -	0.06	0.50	0.95	1.78	2.59	3.44	11.72	104%	20.66	Y			11/03/2016	North Sails	Carbon	OUS108854-1
Jib Li-3	0.07	0.50	0.95	1.77	2.59	3.43	11.67	103%	20.53	Y			21/06/2018	North Sails	Carbon	OSE1030-002
HW Jib	0.06			1.54		3.06	10.60	92%	16.46				07/03/2016	North Sails	Unknow	
FR Spi	0.08	0.36	0.67	1.27	1.84	2.46	10.14	74%	12.76		Y		05/07/2019	North Sails	Polyest	OSE3090-1

SYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S2 Fr 2019	11.90	11.90	11.90	6.55	6.05	63.97		14/05/2019	North Sails	Nylon	
S4 FR rød	11.92	11.92	11.92	6.29	5.94	61.79		06/12/2010	North Sails	Unknown	

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
a5	11.92	11.54	11.73	5.31	6.98	55.18	asym		26/06/2019	North Sails	Polyester	OSE3066-1