

BOAT Name MARDIVINO Sail Nr CHI-2665	GPH 526.2	HULL Length Overall 16.830m Maximum Beam 4.558m Displacement 19,714kg Draft 3.312m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.154% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class X-55 DK Designer JEPPESEN Builder X-YACHTS Series 03/2007 Age 01/2010 Age Allowance 0.390% Offset File X55dk.OFF - 13/10/2011 15:39:18 Measurement by - 13/09/2016		IMSL 15.191m VCGD -0.029m Sink 41.12kg/mm RL 12.147m VCGM 0.101m WS 55.85m² LSM0 15.288m Displacement/Length ratio 5.5173



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SCORING OPTIONS						
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	511.8			577.4		
Time on Time	1.1724			1.1690		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	605.8	464.3	416.7	784.6	578.7	503.4
Time on Time	1.1142	1.4537	1.6199	0.8603	1.1664	1.3409

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	883.8	726.7	644.5	605.9	587.4	577.8	555.9
52°	581.1	487.2	437.4	418.2	410.9	407.0	399.9
60°	550.4	464.6	422.4	406.0	399.2	395.6	391.0
75°	527.2	448.3	412.3	396.3	386.9	381.2	376.0
90°	531.8	449.6	411.9	393.8	381.9	372.2	357.7
110°	538.1	442.6	401.4	384.5	375.5	367.3	352.3
120°	553.1	452.3	405.9	384.9	368.7	356.6	338.6
135°	616.6	498.3	430.4	398.8	380.4	363.4	328.3
150°	736.6	586.6	496.5	437.5	407.0	392.1	364.7
Run VMG	850.6	677.3	573.3	505.1	469.3	449.0	397.5

Certificate
Number **266502**
ORC Ref **ESP00004561**
Issued On **07/06/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **1,261kg**
Maximum **1,000kg**
Minimum* **750kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Double H.GPH **531.2 1.1296**
Double H.OSN **517.5 1.1595**
Non Spin GPH **560.0 1.0714**
Non Spin OSN **544.8 1.1013**

Selected Courses							
Windward / Leeward	867.2	702.0	608.9	555.5	528.4	513.4	476.7
Circular Random	726.5	585.4	510.0	467.0	441.1	424.2	400.7
Coastal / Long Distance	865.6	659.3	546.6	481.2	448.7	425.6	385.8
Non Spinnaker	789.3	629.7	542.2	490.3	457.7	436.1	408.2

Sails Limitations
Headsails **7** Spinnakers **5**

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	42.6°	40.6°	40.0°	39.5°	38.8°	38.5°	37.4°
Beat VMG	4.07	4.95	5.59	5.94	6.13	6.23	6.48
52°	6.20	7.39	8.23	8.61	8.76	8.85	9.00
60°	6.54	7.75	8.52	8.87	9.02	9.10	9.21
75°	6.83	8.03	8.73	9.08	9.31	9.44	9.57
90°	6.77	8.01	8.74	9.14	9.43	9.67	10.06
110°	6.69	8.13	8.97	9.36	9.59	9.80	10.22
120°	6.51	7.96	8.87	9.35	9.76	10.09	10.63
135°	5.84	7.22	8.36	9.03	9.46	9.91	10.97
150°	4.89	6.14	7.25	8.23	8.85	9.18	9.87
Run VMG	4.23	5.32	6.28	7.13	7.67	8.02	9.06
Gybe Angles	142.1°	145.3°	147.3°	149.5°	150.8°	153.2°	177.7°

Class Division Length
CDL = **13.670**

Storm Sails Areas
Heavy Weather Jib **73.41**
Storm Jib (JL=15.16) **27.19**
Storm Trysail **29.51**

Owner

BOAT		
Name MARDIVINO	Sail Nr CHI-2665	
File CHI2665	Data in meters/kilograms	

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 04/05/2011	SG 1.0250	
FFM 1.675	FF 1.694	SFFP 0.522
FAM 1.375	FA 1.369	SAFP 16.118
W1 191.7	PD1 429.0	WD 13.850
W2 191.7	PD2 431.6	GSA 1.0
W3 191.7	PD3 431.3	RSA 1.0
W4 191.7	PD4 432.1	PLM 9000.0
LCF from stem on CL / on sheer		9.493 / 9.732
Maximum beam station from stem		11.018
RM Measured		485.1kg-m
RM Default		605.0kg-m
Limit of positive stability / Stab.Index		114.2° / 126.5
Freeboard at mast at 6.590		1.450



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RIG		
Forestay Tension Aft	Spreaders 3	
Inner Stay None Fitted	Runners 0	
Carbon Mast Yes	Jumper Struts None	
Taper Hollows No	Jib Furler Yes	
Fiber Rigging No	Main Furler Yes	
Lenticular Rigging No	Without Backstay No	
Articulated Bowsprit No		
P 22.330	E 7.550	MDT1 0.152 MW 0.342
IG 23.230	J 6.120	MDL1 0.342 GO 0.365
ISP 23.280	SFJ 0.470	MDT2 0.135 BD 0.248
BAS 1.940	SPL 6.350	MDL2 0.293 MWT
FSP 0.099	TPS 6.590	TL 1.270 MCG

MIZZEN RIG AND SAILS		
N/A		

PROPELLER		
Installation Shaft exposed	PRD 0.623	
Type Folding 3 blades	PBW	
Twin Screw No	PIPA 0.0140	
PSA 21.100	PHL 0.180	ST3 0.195 ESL 1.127
PSD 0.045	ST1 0.045	ST4 0.097
PHD 0.117	ST2 0.168	ST5 0.288

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COMMENTS		

MOVABLE BALLAST		
N/A		

CENTERBOARD		
N/A		



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.230	1.32	2.42	4.45	6.04	93.77	94.84	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	25.27	21.47	23.37	13.21	10.76	247.72	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
0.08	0.95	1.78	3.32	4.86	6.45	22.80	75.25	Y		13/09/2016	Unknow	LIGHT

MEASUREMENT INVENTORY				
Measurer ITA 120				
Date 04/05/2011				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
A	Ancher	20.0	1.40	
A	Chain	68.0	0.85	
SaS	Tools	36.0	11.00	0.00 Sailer-Services
A	Tools	10.0	8.85	
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
A	Engine	YANMAR	4JH24-HTE	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	
A	Deck-Gear	30.0		

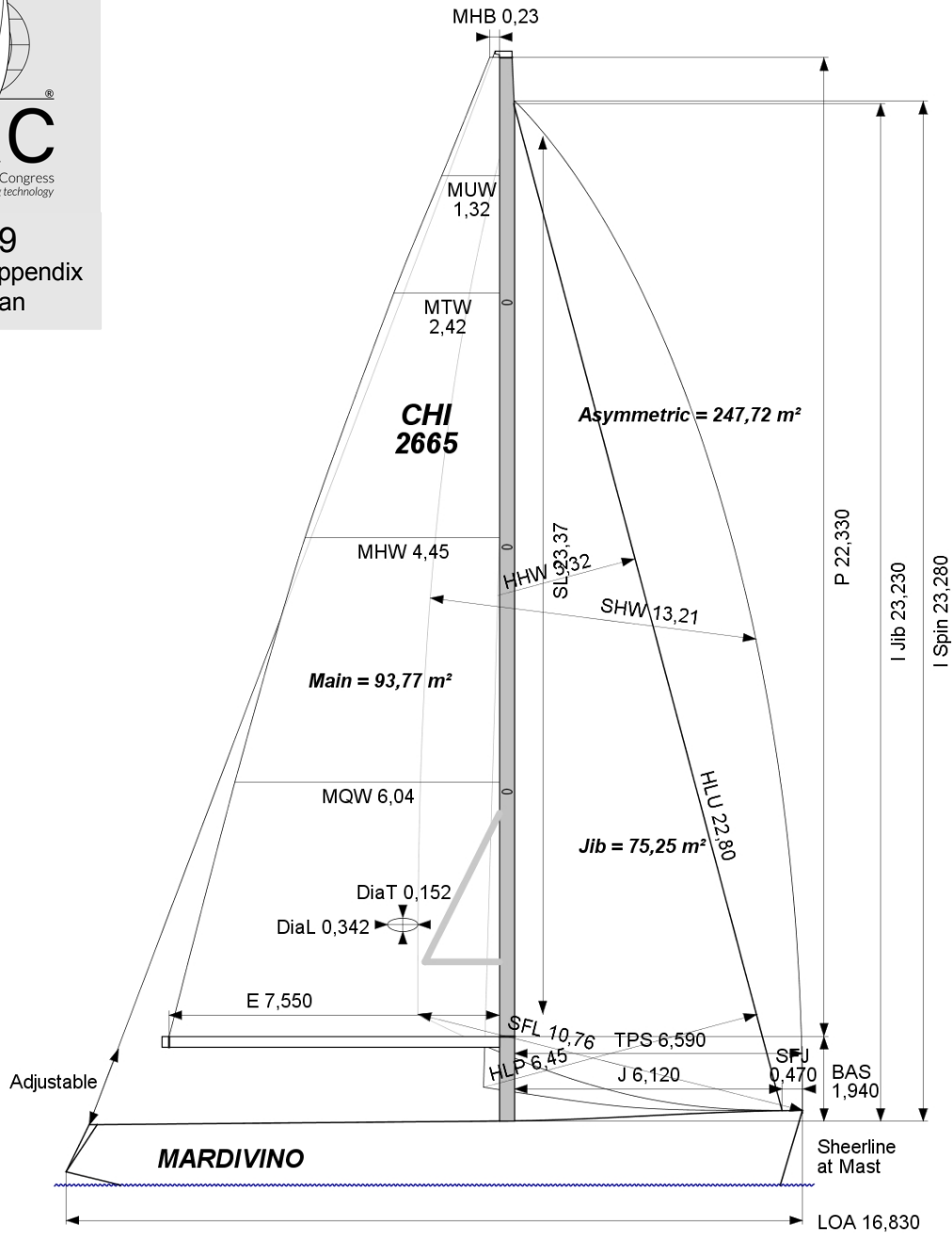
MEASUREMENT INVENTORY							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
A	Tank	GASOLIO	INOX	246.0	8.60		0-0
B	Tank	GASOLIO	INOX	170.0	10.15		20.0 LITRI
C	Tank	ACQUA	INOX	592.0	7.65		0-0 2 DA 246 VUOTI
D	Tank	GASOLIO	INOX	229.0	8.10		0-0 VUOTO
E	Tank	H2O NERE	INOX	74.0	11.15		0-0 A DX.
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>		
A	Battery	16.0	13.65		1 DA 95 AH		
B	Battery	16.0	13.25		1 DA 95 AH		
C	Battery	160.0	9.80		1 DA 460 AH		
A	Misc	63.0	13.25		GENERATORE 7,5 kW PANDA FISCHER		
B	Misc	0.0	12.60		DESALINIZZATORE		
C	Misc	0.0	12.00		RISCALDATORE		
D	Misc	18.0	12.95		BOILER 25 LITRI VUOTO		



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
001	0.23	1.32	2.42	4.45	6.04	93.78		13/09/2016	NS	Kevlar						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
NEW	0.08	0.95	1.78	3.32	4.86	6.45	22.80	105%	75.25	Y			13/09/2016	NS	Unknow	LIGHT
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
001	25.27	21.47	23.37	13.21	10.76	247.73	asym		22/08/2013	NS	Nylon					