

BOAT Name DU SOLEIL Sail Nr 9	GPH 588.1	HULL Length Overall 12.100m Maximum Beam 3.780m Displacement 6,552kg Draft 2.410m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class IMX 40 Designer NIELS JEPPESEN Builder X-YACHTS Series 05/2000 Age 04/2001 Age Allowance 0.487% Offset File IMX40.OFF - 17/05/2001 17:04:00 Measurement by MIKAEL LINDQVIST - 20/04/2001		IMSL 10.688m VCGD 0.103m Sink 21.85kg/mm RL 9.887m VCGM 0.114m WS 29.18m²



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2015
ORC International
Certificate

Rating Office

Offshore
Racing
Congress



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SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	573.8			639.8		
Time On Time	1.0457			1.0550		
Performance Line	0.916	116.2		0.881	195.0	
Triple Number	Low 1.0020	Medium 1.2948	High 1.4559	Low 0.7663	Medium 1.0465	High 1.2224

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	964.2	801.0	711.4	671.5	650.2	638.2	633.8
52°	628.3	527.1	484.7	471.3	464.6	460.4	455.9
60°	590.7	503.0	470.6	458.4	451.8	447.8	442.5
75°	559.3	487.5	459.9	442.8	431.9	425.6	420.2
90°	563.0	488.9	458.4	442.2	424.1	409.5	396.0
110°	599.2	500.0	459.9	434.1	410.2	395.9	380.4
120°	623.7	511.5	469.4	445.1	420.6	397.2	368.5
135°	707.4	574.8	500.2	465.8	442.6	419.2	373.2
150°	849.8	672.7	567.0	500.2	466.9	444.2	399.6
Run VMG	981.3	776.8	654.0	569.2	508.9	472.8	427.5

Certificate

Number **5748**
ORC Ref **SSF00001333**
Issued On **01/09/2015**
VPP Ver. **2015 1.01**
Valid until **31/12/2015**

Crew Weight

Declared **760kg**
Default* **749kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	609.7	0.9841
Non Spin OSN	593.9	1.0102
N/S Perf. Line	92.2	0.845

Selected Courses							
Windward / Leeward	972.7	788.9	682.7	620.4	579.5	555.5	530.7
Circular Random	809.4	654.0	570.7	522.3	492.4	472.8	448.5
Ocean for PCS	863.5	683.5	583.4	522.5	482.6	454.3	414.3
Non Spinnaker	847.9	681.3	591.2	538.1	505.1	483.3	455.8

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	43.4°	42.5°	41.3°	39.1°	38.1°	37.5°	37.8°
Beat VMG	3.73	4.49	5.06	5.36	5.54	5.64	5.68
52°	5.73	6.83	7.43	7.64	7.75	7.82	7.90
60°	6.09	7.16	7.65	7.85	7.97	8.04	8.14
75°	6.44	7.38	7.83	8.13	8.34	8.46	8.57
90°	6.39	7.36	7.85	8.14	8.49	8.79	9.09
110°	6.01	7.20	7.83	8.29	8.78	9.09	9.46
120°	5.77	7.04	7.67	8.09	8.56	9.06	9.77
135°	5.09	6.26	7.20	7.73	8.13	8.59	9.65
150°	4.24	5.35	6.35	7.20	7.71	8.11	9.01
Run VMG	3.67	4.63	5.50	6.32	7.07	7.61	8.42
Gybe Angles	140.8°	148.8°	152.4°	159.4°	173.9°	178.4°	178.7°

Class Division Length

CDL = **10.288**

Storm Sails Areas

Heavy Weather Jib **34.76**
Storm Jib (JL=10.43) **12.87**
Storm Triesail **14.49**

Owner

BOAT	
Name DU SOLEIL	Sail Nr 9
File 5748.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 05/07/2002	SG 1.0040	
FFM 1.369	FF 1.383	SFFP 0.405
FAM 1.125	FA 1.135	SAFP 11.420
W1 23.000	PD1 75.0	WD 12.170
W2 46.000	PD2 150.0	GSA 0.8
W3 69.000	PD3 225.0	RSA 57.5
W4 92.000	PD4 300.0	PLM 2470.0
LCF from stem on CL / on sheer		6.668 / 6.909
Maximum beam station from stem		7.990
RM Measured		159.1kg·m
RM Default		179.2kg·m
Limit of positive stability / Stab.Index		114.7° / 116.0
Freeboard at mast at 4.500		1.259

RIG				
Forestay Tension Aft	Spreaders 3			
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 15.050	E 5.500	MDT1 0.117	MW 0.243	
IG 16.000	J 4.500	MDL1 0.243	GO 0.256	
ISP 16.044	SFJ 0.000	MDT2 0.099	BD 0.270	
BAS 1.804	SPL 4.500	MDL2 0.184	MWT 180.00	
FSP 0.076	TPS 0.000	TL 0.870	MCG 5.036	



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2015 Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.430	
Type Folding 2 blades	PBW 0.110	
Twin Screw No	PIPA 0.0031	
ST1 0.049	ST3 0.170	ST5 0.274
ST2 0.160	ST4 0.098	EDL 1.600

Certificate	
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COMMENTS

MOVEABLE BALLAST
N/A

CENTERBOARD
N/A



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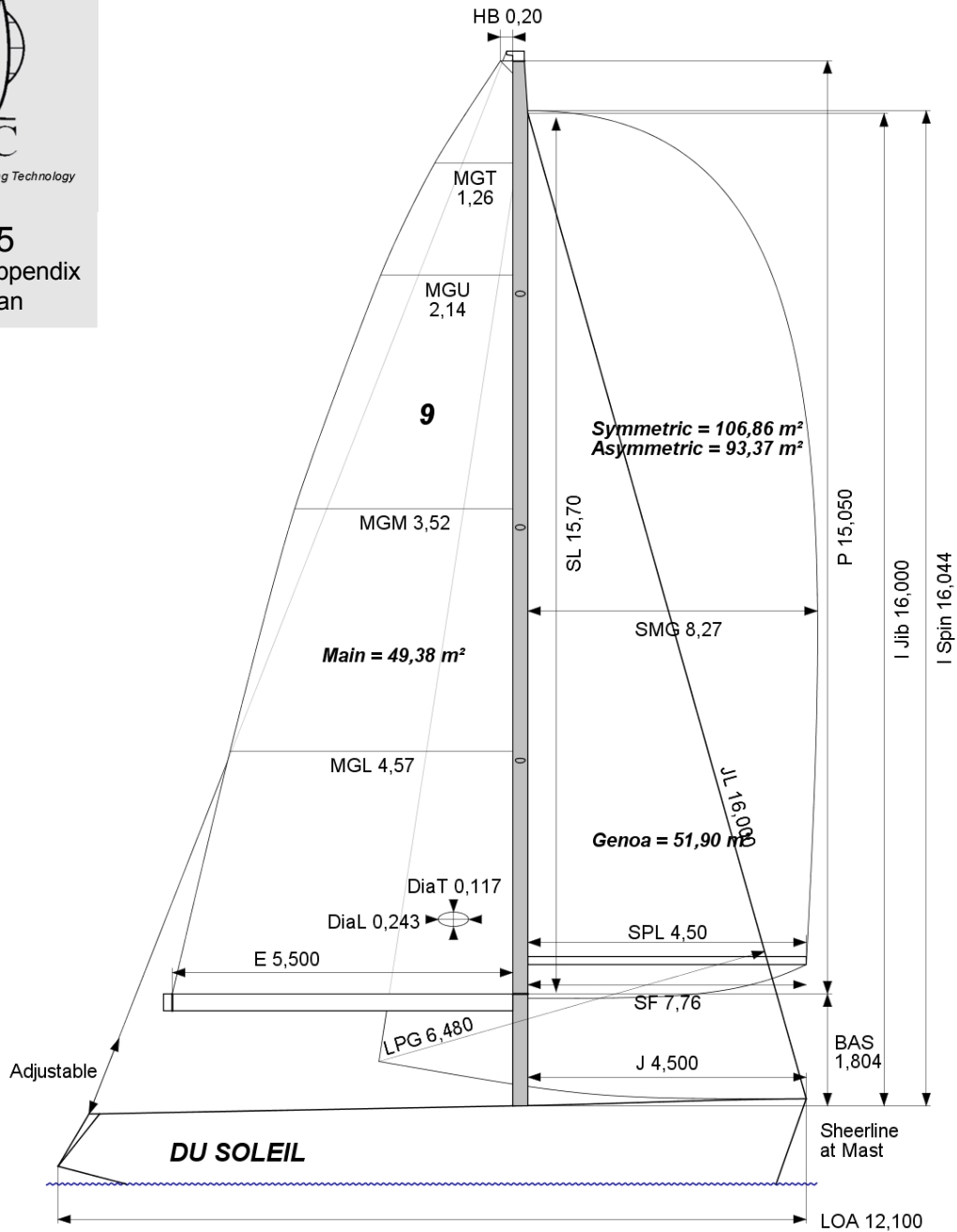
SAILS (Maximum Areas)						
Mainsail	HB	MGT	MGU	MGM	MGL	
	0.200	1.26	2.14	3.52	4.57	
						Area Area (r) Formula
						49.38 50.52 $P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Symmetric	SL	SMG	SF			
	15.70	8.27	7.76			
				106.86 $SL \cdot (SF + 4 \cdot SMG) / 6$		
Asymmetric	SLU	SLE	ASL	AMG	ASF	
	16.12	15.31	15.71	6.91	8.01	
						93.37 $ASL \cdot (ASF + 4 \cdot AMG) / 6$

HEADSAILS												
Area = $0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$												
JH	JGT	JGU	JGM	JGL	LPG	JL	Area	Btn	Fly	Meas.Date	Material	Comment
0.08	0.85	1.63	3.23	4.84	6.48	16.00	51.91					* Copied from legacy *
0.09	0.83	1.56	3.16	4.80	6.49	15.98	51.26				Unknow	
0.09	0.78	1.47	2.95	4.51	6.22	16.05	48.64				Unknow	
0.06	0.62	1.19	2.34	3.47	4.55	16.10	37.37	Y			Unknow	
0.08	0.53	0.98	1.95	2.88	3.84	12.28	23.83		Y		Unknow	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y			Unknow	



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Certificate Appendix
Sail Plan



SAILS INVENTORY																
MAINSAIL																
Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M 3DL	0.200	1.26	2.14	3.52	4.57	49.38				Unknown						
HEADSAILS																
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1L Q	0.08	0.85	1.63	3.23	4.84	6.48	16.00	144%	51.91							* Copied from legacy *
1M NS	0.09	0.83	1.56	3.16	4.80	6.49	15.98	144%	51.26						Unknow	
1H Q	0.09	0.78	1.47	2.95	4.51	6.22	16.05	138%	48.64						Unknow	
3 Q	0.06	0.62	1.19	2.34	3.47	4.55	16.10	101%	37.37	Y					Unknow	
SS Q	0.08	0.53	0.98	1.95	2.88	3.84	12.28	85%	23.83		Y				Unknow	
4 UK	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0.00	Y					Unknow	
SYMMETRIC SPINNAKERS																
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment							
S4 NS	15.70	8.27	7.76	106.86				Unknown								
S1 NS	16.01	7.94	8.08	106.31				Unknown								
09 UK	15.70	7.97	7.86	103.99				Unknown								
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
R5 Q	16.12	15.31	15.71	6.91	8.01	93.37	asym				Unknown					