

APH ToD: **503.6** CDL: **10.848**

APH ToT: **1.1915** CertNo: **6152**

BOAT

Class **X 41 OD**
Designer **NIELS JEPPESEN**
Builder **X-YACHTS**
Age date **04/2008**
Series date **12/2006**
Offset file **X41.OD+.off**
Data file **6152 SWE44 X41 Oxygen**

HULL

Length Overall **12.350 m**
Maximum Beam **3.646 m**
Draft **2.492 m**
Displacement **6,771 kg**
DLR **5.4894**
IMS Division **Performance**
Dynamic Allowance **0.000%**
Age Allowance **0.650%**
RS Assessment **-0.178%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.431m**

CREW

Maximum weight **860 kg** (declared)
Minimum weight **730 kg** * when applied
Crew Arm Extension **0.00 m**

SAIL AREAS (m²)

	Measured	Rated
Mainsail	52.70	53.67
Headsail Luffed	45.73	45.73
Headsail Flying		
Symmetric	130.70	130.70
Asymmetric	98.17	111.92

(1 asymmetric(s) with SHW/SFL < 85%)

STORM SAIL AREAS Maximum (m²)

Trysail **15.64**
Storm Jib **14.67**
Heavy Weather Jib **39.61**

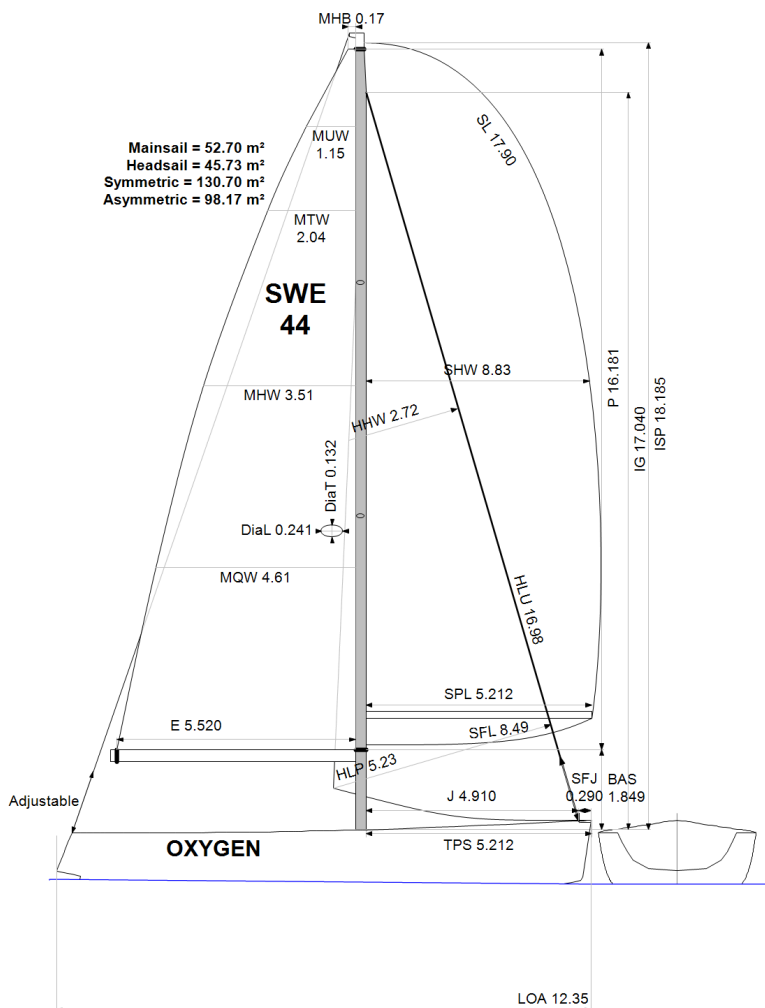
SAIL LIMITS

Headsails **6**
Spinnakers **5** * Asymmetric may be tacked on the pole

STABILITY

Righting Moment **201.0 kg·m**
Stability Index **128.1**

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.



Rated boat velocities in knots

Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat Angles	45.5°	42.8°	40.6°	38.6°	37.4°	37.4°	37.1°	37.1°	38.2°
Beat VMG	2.79	3.95	4.79	5.32	5.55	5.67	5.75	5.82	5.74
52°	4.37	5.99	7.03	7.56	7.78	7.90	7.97	8.06	8.06
60°	4.70	6.29	7.25	7.75	7.99	8.11	8.20	8.32	8.34
75°	4.94	6.50	7.40	7.88	8.20	8.42	8.56	8.77	8.86
90°	4.80	6.38	7.36	7.93	8.24	8.57	8.85	9.22	9.46
110°	4.50	6.27	7.46	8.11	8.60	9.02	9.33	9.92	10.36
120°	4.32	6.09	7.32	8.00	8.51	9.03	9.57	10.51	11.53
135°	3.78	5.43	6.72	7.61	8.16	8.68	9.23	10.60	12.67
150°	3.12	4.57	5.82	6.88	7.65	8.16	8.65	9.79	11.41
Run VMG	2.70	3.96	5.04	5.97	6.74	7.36	7.86	8.76	9.89
Gybe Angles	139.9°	142.1°	147.8°	152.1°	157.5°	165.3°	169.8°	168.2°	154.4°

Time Allowances in secs/NM									
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	1291.2	912.5	751.2	676.7	648.7	634.6	626.0	618.2	627.2
52°	824.2	601.5	512.4	475.9	462.4	455.9	451.5	446.4	446.6
60°	766.2	572.5	496.3	464.4	450.6	443.9	439.0	432.9	431.6
75°	728.2	554.0	486.5	456.7	438.8	427.4	420.4	410.7	406.3
90°	749.2	564.7	489.0	453.7	436.7	419.9	407.0	390.5	380.5
110°	800.3	574.1	482.3	444.2	418.5	399.0	385.9	362.8	347.5
120°	832.5	591.5	491.8	450.2	422.9	398.7	376.1	342.7	312.3
135°	952.2	662.6	535.7	473.2	441.3	414.9	390.0	339.5	284.2
150°	1153.9	787.3	618.6	523.1	470.9	440.9	416.1	367.6	315.4
Run VMG	1332.4	909.1	714.3	602.9	534.4	488.9	457.9	411.1	363.9
Selected Courses									
Windward / Leeward	1311.8	910.8	732.7	639.8	591.5	561.8	541.9	514.7	495.6
All purpose	987.9	701.1	578.4	518.8	488.1	468.1	453.3	430.2	412.6

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	616.5	0.9732
All purpose	503.6	1.1915

Custom scoring options for Sweden

Scoring Option	Time On Distance	Time On Time
Coastal/Long Distance	547.1	1.0966
Triple Number Coastal/Long Distance Low	639.8	0.9378
Triple Number Coastal/Long Distance Medium	500.9	1.1979
Triple Number Coastal/Long Distance High	448.4	1.3382
Triple Number Windward/Leeward Low	821.8	0.7301
Triple Number Windward/Leeward Medium	611.9	0.9805
Triple Number Windward/Leeward High	536.7	1.1180
Predominantly Upwind	543.4	1.1042
Predominantly Downwind	513.1	1.1693

Performance Curve	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Coastal/Long Distance	1313.9	910.6	691.0	580.5	520.1	485.9	457.5	411.7	392.7



International Certificate
2026

Oxygen
SWE 44

Swedish Sailing Federation
Svenska Seglarförbundet
af Pontins väg 6
115 21 Stockholm



Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	X 41 OD	Length overall	12.350	VCGD	-0.118	Centerboard weight	N/A
Measurement	08/05/2008	Maximum beam	3.646	VCGM	-0.133	List angle	N/A
HIN		Draft	2.492	RM Rated (kg·m)	201.0	Canting keel angle	N/A
Plan review		Displacement	6,771	Limit of positive stability(°)	124.9		
Hull construction	Cored	Wetted area	30.72	Stability Index	128.1		
Carbon rudder	No	IMS L	11.098	BLR index	N/A		
Light stanchions	No	LSM0	10.723	Default crew weight	760		
Trim tab	No	Accommod. length	11.850	Declared crew weight	860		
		Sink (kg/mm)	23.03				

PROPELLER

Propeller Type	Folding 2 blades				
Installation	Strut	PRD	0.431	EDL	1.884
Twin screw	No	PBW	0.110	ST1	0.065
Hydro generator	No	PIPA	0.0040	ST2	0.180
				ST3	0.180
				ST4	0.110
				ST5	0.315

RIG

Backstay	Adjustable	P	16.181	E	5.520	PY	N/A	Flying Headsail Foretriangles <i>Id</i> <i>ISP</i> <i>TPS</i>
Forestay	Adjustable (turnbuckle)	IG	17.040	J	4.910	MDT1Y	N/A	
Inner forestay	Not installed	ISP	18.185	BAS	1.849	MDL1Y	N/A	
Mast material	Carbon	MDT1	0.132	FSD	0.037	MDT2Y	N/A	
Single headsail furler	No	MDL1	0.241	SFJ	0.290	MDL2Y	N/A	
Mainsail furler	No	MDT2	0.122	SPL	5.212	TLY	N/A	
Articulated bowsprit	No	MDL2	0.190	WPL		BASY	N/A	
Non-circular rigging	No	TL	0.960	TPS	5.212	EY	N/A	
Fiber rigging	No	MW	0.241	BD	0.270	BDY	N/A	
Base of mast	Fixed	GO	0.266	MWT	197.00	IY	N/A	
Running backstays	No			MCG	5.600	EB	N/A	
Checkstays	No							
Spreaders	2							
Rotating mast	No							

FLOTATION AND STABILITY

Calculation method	Poles inclining	SFFP	0.200	SAFP	11.995	W1	94.6	PD1	451.8	WD	11.940
Flotation Date	12/05/2025	FFM	1.465	FAM	1.078	W2	94.6	PD2	446.2	PLM	9000.00
Measurer	JT1330	FF	1.473	FA	1.083	W3	94.6	PD3	446.1	GSA	1.0
Comment	Performance, no table, cushions	LCFcl	6.971	LCFsh	7.191	W4	94.6	PD4	443.8	RSA	1.0
		SG	1.0065	HBI	1.220					RM	199.0

INVENTORY

TANKS	<i>Id</i>	<i>Description</i>	<i>Sp.Wght</i>	<i>Capacity</i>	<i>Condition</i>	<i>LCG</i>	<i>VCG</i>
	1	Fuel Alu Fuel SB	0.9000	90	~~40~~	6.00	
	2	Water Plastic Water		180	0	5.80	
	3	Waste S/S BlackWater		40	0	4.30	0.90
	4	Water S/S Boiler		16	0	9.20	
		<i>Total deductible</i>			9	6.00	
OTHER ITEMS	<i>Id</i>	<i>Kind</i>	<i>Description</i>		<i>Weight</i>	<i>LCG</i>	<i>VCG</i>
	1	Miscellaneous	Heater		10	11.10	0.60
	3	Battery	AGM Service Battery		40	9.40	
	2	Battery	1x80AH Engine			7.70	
	E	Engine (IC)	VP D2-40				
		<i>Total deductible</i>			0		



MAINSAIL

<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
MN-4	0.17	1.15	2.04	3.51	4.61	52.70	23/07/2026	
Hvy								
MN-3	0.18	1.20	2.10	3.51	4.52	52.63	19/06/2023	
MN-5	0.22	1.18	2.06	3.50	4.55	52.59	04/06/2026	No Reef

HEADSAIL

<i>Id</i>	<i>HHB</i>	<i>HUW</i>	<i>HTW</i>	<i>HHW</i>	<i>HQW</i>	<i>HLP</i>	<i>HLU</i>	<i>Btn</i>	<i>Flying FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
J1-L2	0.12	0.76	1.43	2.72	3.99	5.23	16.98	Yes	No	45.73	09/04/2024	IHC120162
Jib L4	0.14	0.79	1.46	2.73	3.99	5.21	16.82	Yes	No	45.44	17/02/2025	
JR-B	0.20	1.11	1.85	3.02	4.13	5.23	15.60	No	No	45.35		
J2-M2	0.12	0.76	1.43	2.69	3.95	5.22	16.92	Yes	No	45.27	09/04/2024	IHC120165
BlastR	0.51	1.11	1.83	2.99	4.10	5.19	15.39	Yes	No	44.65	04/06/2025	
J3-H3	0.09	0.74	1.38	2.64	3.90	5.22	16.82	Yes	No	44.42	03/06/2026	
J3-H2	0.11	0.74	1.37	2.62	3.90	5.23	16.81	Yes	No	44.34		
J4-HWJ	0.09	0.58	1.10	2.20	3.43	4.61	16.48	No	No	37.44		
SpinSta	0.07	0.56	1.04	1.96	2.90	3.92	14.10	No	Inner	27.82		Remeasured 240810 EC/JT1330
RS	0.58	0.86	1.19	1.85	2.49	3.11	11.38	Yes	Inner	20.62	23/03/2021	

SYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
S2	17.90	17.90	17.90	8.83	8.49	130.70		
S4	17.88	17.88	17.88	8.76	8.75	130.49	11/05/2012	
S1.5	17.96	17.96	17.96	8.78	8.46	130.45	11/02/2020	
S1	17.90	17.90	17.90	8.10	8.79	122.88	11/05/2012	
S3	17.83	17.84	17.84	7.05	8.76	109.86	03/06/2026	

ASYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Ratio</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A5-B	17.14	15.62	16.38	6.93	8.24	84%	98.17		

NON MANUAL POWER CONTROLS (NMP)

Sheets	No	Mainsail cunningham	No	Jib track	No	Spinnaker retriever	No
Boomvang	No	Headsail cunningham	No	Tack line	No		
Outhaul	No	Main traveller	No	Halyards	No		