

APH ToD: **548.3** CDL: **8.995**

APH ToT: **1.0943** CertNo:

BOAT

Class **J-99**
Designer **J Boats**
Builder **J Composites**
Age date **07/2020**
Series date **01/2018**
Offset file **J99-LK.off**
Data file **PER099**

HULL

Length Overall **9.950 m**
Maximum Beam **3.410 m**
Draft **1.990 m**
Displacement **3,863 kg**
DLR **6.0028**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.130%**
Age Allowance **0.195%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.410m**

CREW

Maximum weight **558 kg (default)**
Minimum weight **428 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	34.10	34.84
Headsail Luffed	26.95	26.95
Headsail Flying		
Symmetric		
Asymmetric	106.22	106.22

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

STORM SAIL AREAS (m²)

Trysail **9.73**
Storm Jib **8.59**
Heavy Weather Jib **23.18**

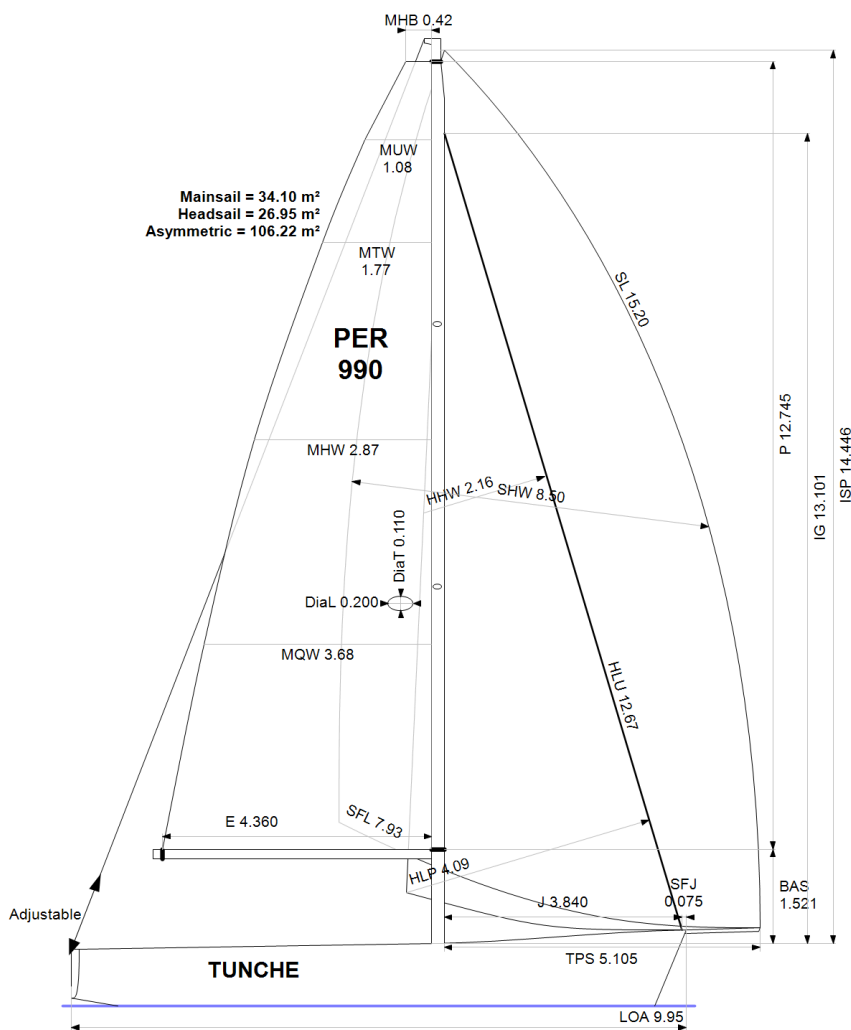
SAIL LIMITS

Headsails **5**
Spinnakers **4**

STABILITY

Righting Moment **100.9 kg·m**
Stability Index **116.6**

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	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat Angles	43.2°	40.9°	38.8°	37.6°	37.2°	36.9°	37.2°	38.3°
Beat VMG	3.51	4.28	4.81	5.09	5.21	5.27	5.32	5.26
52°	5.34	6.29	6.82	7.08	7.21	7.28	7.36	7.36
60°	5.62	6.51	6.97	7.24	7.40	7.49	7.60	7.62
75°	5.81	6.73	7.15	7.40	7.64	7.81	8.00	8.11
90°	6.07	6.94	7.39	7.70	7.90	8.05	8.41	8.68
110°	5.97	6.97	7.49	7.88	8.21	8.60	9.35	10.11
120°	5.83	6.89	7.45	7.92	8.37	8.81	9.79	11.61
135°	5.22	6.44	7.17	7.67	8.17	8.70	10.45	13.06
150°	4.42	5.57	6.51	7.10	7.46	7.81	8.56	11.88
Run VMG	3.83	4.83	5.63	6.15	6.46	6.96	7.70	10.29
Gybe Angles	143.7°	147.7°	148.9°	150.3°	149.9°	174.5°	175.7°	141.5°



International
Certificate
2024

Boat
TUNCHE
PER-990

Certificate
Copy
ORC
Sailor Services



Time Allowances in secs/NM								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	1025.8	842.1	748.3	707.4	691.6	683.0	677.2	685.0
52°	674.1	572.4	527.9	508.3	499.5	494.6	489.3	489.1
60°	641.1	553.3	516.2	497.0	486.4	480.9	474.0	472.3
75°	619.7	534.6	503.3	486.4	471.2	460.8	449.8	444.0
90°	593.0	518.4	487.0	467.6	455.9	447.0	428.1	414.8
110°	603.0	516.2	480.7	456.7	438.4	418.6	385.2	356.0
120°	617.8	522.9	483.2	454.4	429.9	408.5	367.6	309.9
135°	689.3	559.2	502.4	469.3	440.9	413.8	344.6	275.7
150°	813.6	645.8	553.4	506.9	482.4	461.2	420.7	303.1
Run VMG	939.4	745.7	639.0	585.1	557.0	517.1	467.8	350.0
Selected Courses								
Windward / Leeward	982.6	793.9	693.6	646.2	624.3	600.1	572.5	517.5
All purpose	755.7	626.2	563.2	531.2	513.1	497.0	471.2	434.5

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	674.6	0.8894
All purpose	548.3	1.0943



Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	J-99	LOA	9.950	VCGD	-0.265
Measurement	24/06/2020	Max. Beam	3.410	VCGM	-0.134
HIN		Draft	1.990	RM Rated (kg·m)	100.9
Plan review		Displacement	3,863	Limit of positive stability(°)	120.3
Hull construction	Solid	Wetted area	21.15	Stability Index	116.6
Carbon Rudder	No	IMS L	9.077	Default crew weight	558
Light stanchions	No	LSM0	8.632	Declared crew weight	N/A
Trim tab	No	Acc. length	9.950		
		Sink (kg/mm)	16.20		

PROPELLER

Propeller Type	Folding 2 blades				
Installation	Strut	PRD	0.410	EDL	1.840
Twin screw	No	PBW	0.107	ST1	0.065
Hydro generator	No	PIPA	0.0037	ST2	0.180
				ST5	0.305

RIG

Forestay tension	Aft	P	12.745	E	4.360
Inner stay	None Fitted	IG	13.101	J	3.840
Mast material	Aluminum	ISP	14.446	BAS	1.521
Single headsail furler	No	MDT1	0.110	FSD	0.058
Mainsail furler	No	MDL1	0.200	SFJ	0.075
Articulated bowsprit	No	MDT2	0.110	SPL	
Non-circular rigging	No	MDL2	0.140	WPL	
Fiber rigging	No	TL	0.615	TPS	5.105
Adjustable mast foot	No	MW	0.160	BD	0.160
Runners/Checkstays	0	GO	0.160	MWT	111.50
Spreaders	2			MCG	5.000
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	Poles inclining	SFFP	0.590	SAFP	9.870	W1	60.0	PD1	550.6	WD	11.800
Flotation Date	24/06/2020	FFM	1.205	FAM	0.848	W2	60.0	PD2	551.8	PLM	9000.00
Measurer	FIV-174	FF	1.210	FA	0.847	W3	60.0	PD3	551.0	GSA	1.0
Comment	buone condizioni	LCFcl	5.433	LCFsh	5.693	W4	60.0	PD4	547.6	RSA	1.0
		SG	1.0253	HBI	1.014					RM	101.3

INVENTORY

TANKS	Id	Description	Sp.Wght	Capacity	Condition	LCG	VCG
	B7	gasolio pvc	0.9000	40	35	4.14	
	E3	agua odre		40	0	7.23	
				Total deductible	32	4.14	
OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG	
	B5	Miscellaneous	cocina		5.69		
	E7	Battery	batreia de 12 placas		4.64		
	C5	Battery	bateria de 12 placas		6.04		
	C4	Engine	Volvo D1-20				
				Total deductible			



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>
MW	0.42	1.08	1.77	2.87	3.68	34.10	09/04/2024	

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>
J1-2	0.12	0.63	1.18	2.16	3.11	4.09	12.67	Yes	No	26.95	06/04/2024	
J1.5	0.08	0.58	1.13	2.11	3.12	4.10	12.76	Yes	No	26.84	03/02/2022	

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>
A2	16.45	13.95	15.20	8.50	7.93	107%	106.22	26/04/2021	CELESTE/BCO
A2-23	16.39	13.95	15.17	8.53	7.75	110%	105.86	28/10/2023	GRIS
A3	15.74	14.00	14.87	8.30	8.54	97%	103.45	15/05/2024	AZUL
A1.5	16.10	13.77	14.94	8.44	7.75	109%	103.33		ROJO
A0	14.29	13.14	13.72	5.40	7.15	76%	65.72	26/04/2021	

CRUISER/RACER REQUIREMENTS*

Accommodation length	9.9 m	Table area	0.44 m²	Headroom	1.70 m
Minimum number of berths	4	Personal gear stowage	0.16 m³	Fresh water capacity	78 l
Minimum number of seats in cockpit	4	Food stowage	0.24 m³	Fuel capacity	48 l

* This list refers to the calculated requirements. See IMS Appendix 1 for the complete list of requirements.