

APH: **549.1** CDL: **8.837**

GPH: **614.3** 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 **3,862 kg**
DLR **5.7292**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.104%**
Age Allowance **0.130%**

PROPELLER

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

CREW

Maximum weight **571 kg**
Minimum weight **428 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	34.44	35.23
Headsail Luffed	27.23	27.23
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**

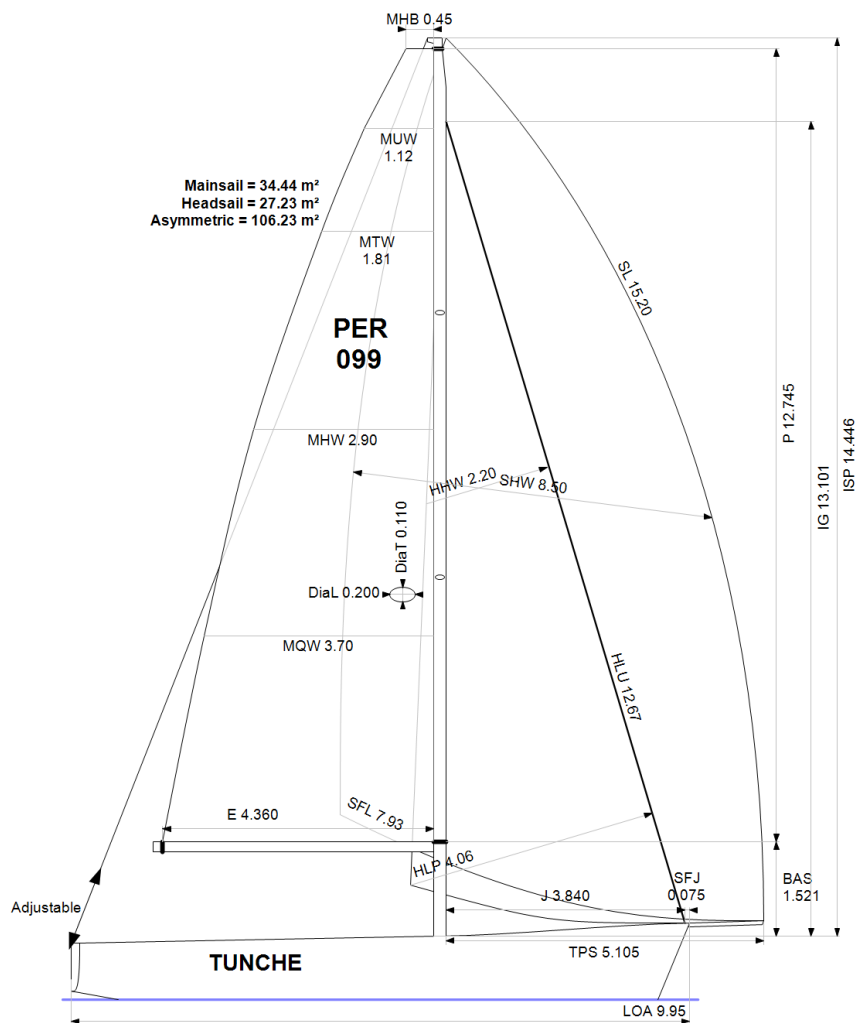
SAIL LIMITS

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

STABILITY

Righting Moment **101.3 kg·m**
Stability Index **117.1**

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	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.0°	41.8°	40.2°	38.8°	38.2°	38.2°	37.8°
Beat VMG	3.38	4.12	4.70	5.00	5.11	5.16	5.25
52°	5.19	6.18	6.79	7.06	7.16	7.22	7.30
60°	5.50	6.51	6.96	7.23	7.38	7.46	7.53
75°	6.03	6.90	7.26	7.45	7.67	7.88	8.06
90°	6.27	7.08	7.51	7.86	8.10	8.30	8.64
110°	6.04	7.01	7.52	7.98	8.44	8.90	9.64
120°	5.82	6.92	7.47	8.01	8.56	8.99	10.01
135°	5.22	6.47	7.19	7.69	8.25	8.87	10.69
150°	4.43	5.57	6.54	7.13	7.48	7.84	9.01
Run VMG	3.84	4.82	5.66	6.18	6.49	6.99	7.80
Gybe Angles	144.2°	147.8°	148.7°	151.0°	164.0°	174.8°	140.8°



International
Certificate
2022

Boat
TUNCHE
PER-099

Asociacion de Vela Oceanica
del Peru - AVOP
Roberto Peschiera - Rating Officer
peschiera56@gmail.com



Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1064.4	874.3	766.7	719.4	703.8	697.5	685.2
52°	693.8	582.3	530.6	510.2	502.5	498.6	493.2
60°	654.7	553.0	517.3	498.2	487.9	482.8	478.3
75°	597.4	521.7	496.2	483.5	469.4	457.0	446.9
90°	574.5	508.6	479.6	458.1	444.6	433.9	416.6
110°	595.7	513.9	478.5	451.0	426.7	404.3	373.5
120°	618.2	520.5	482.1	449.2	420.3	400.5	359.5
135°	690.0	556.3	501.0	468.2	436.2	405.8	336.9
150°	812.0	646.5	550.4	505.0	481.6	459.0	399.6
Run VMG	937.6	746.5	635.5	582.6	555.1	515.0	461.4
Selected Courses							
Windward / Leeward	1001.0	810.4	701.1	651.0	629.5	606.3	573.3
All purpose	762.0	631.4	565.0	531.5	512.2	496.0	466.9

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	681.8	0.8800
All purpose	549.1	1.0927



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 Measured (kg·m)	101.3
Plan review		Displacement	3,862	RM Default (kg·m)	89.2
Hull construction	Solid	Wetted area	21.15	Limit of positive stability(°)	120.7
Aramid Hull Core	No	IMS L	9.056	Stability Index	117.1
Carbon Rudder	No	LSM0	8.768		
Light stanchions	No	Acc. length	9.950		
Trim tab	No	Sink (kg/mm)	16.19		

PROPELLER

Propeller Type	Folding 2 blades						
Installation	Strut	PRD	0.410	EDL	1.840	ST3	0.180
Twin screw	No	PBW	0.107	ST1	0.065	ST4	0.110
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
Carbon mast	No	ISP	14.446	BAS	1.521
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
Runners/Checkstays	0	MW	0.160	BD	0.160
Spreaders	2	GO	0.160	MWT	111.50
				MCG	5.000

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						

INVENTORY

TANKS	<i>Id</i>	<i>Description</i>	<i>Sp.Wght</i>	<i>Capacity</i>	<i>Condition</i>	<i>LCG</i>	<i>VCG</i>
	B7	gasolio pvc	0.9000	50	35	4.14	
	E3	agua odre		100	0	7.23	
				<i>Total deductible</i>	32	4.14	
OTHER ITEMS	<i>Id</i>	<i>Kind</i>	<i>Description</i>	<i>Weight</i>	<i>LCG</i>	<i>VCG</i>	
	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				
				<i>Total deductible</i>			



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>Maker</i>	<i>Material</i>	<i>Comment</i>
M1	0.45	1.12	1.81	2.90	3.70	34.44	26/04/2021	QUANTUM	Carbon	

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</i>	<i>FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
J1	0.12	0.65	1.22	2.20	3.15	4.06	12.67	Yes	No		27.23	03/02/2022	QUANTUM	Carbon	remedicion
J1.5	0.08	0.58	1.13	2.11	3.12	4.10	12.76	Yes	No		26.84	03/02/2022	QUANTUM	Carbon	

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>Maker</i>	<i>Material</i>	<i>Comment</i>
A2	16.45	13.95	15.20	8.50	7.93	107%	106.22	26/04/2021	QUANTUM	Nylon	
A1.5	16.10	13.77	14.94	8.44	7.75	109%	103.33		QUANTUM	Nylon	ROJO
A0	14.29	13.14	13.72	5.40	7.15	76%	65.72	26/04/2021	QUANTUM	Nylon	