

APH: **563.7**

CDL: **9.123**

GPH: **633.8**

CertNo: **PERI29**

BOAT

Class **Tripp 33**
Designer **Tripp**
Builder **Carrol Marine**
Age date **06/1992**
Series date **06/1992**
Offset file **Tripp33_RAVEN.off**
Data file **PER43833**

HULL

Length Overall **10.025 m**
Maximum Beam **3.144 m**
Draft **2.119 m**
Displacement **3,888 kg**
DLR **4.4505**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.182%**
Age Allowance **0.487%**

PROPELLER

Installation **Shaft exposed**
Type **Feathering 2 blades**
Diameter **0.305m**

CREW

Maximum weight **615 kg**
Minimum weight **461 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	32.67	33.52
Headsail Luffed	29.34	29.34
Headsail Flying		
Symmetric	66.48	66.48
Asymmetric		

STORM SAIL AREAS (m²)

Trysail **9.48**
Storm Jib **7.23**
Heavy Weather Jib **19.51**

SAIL LIMITS

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

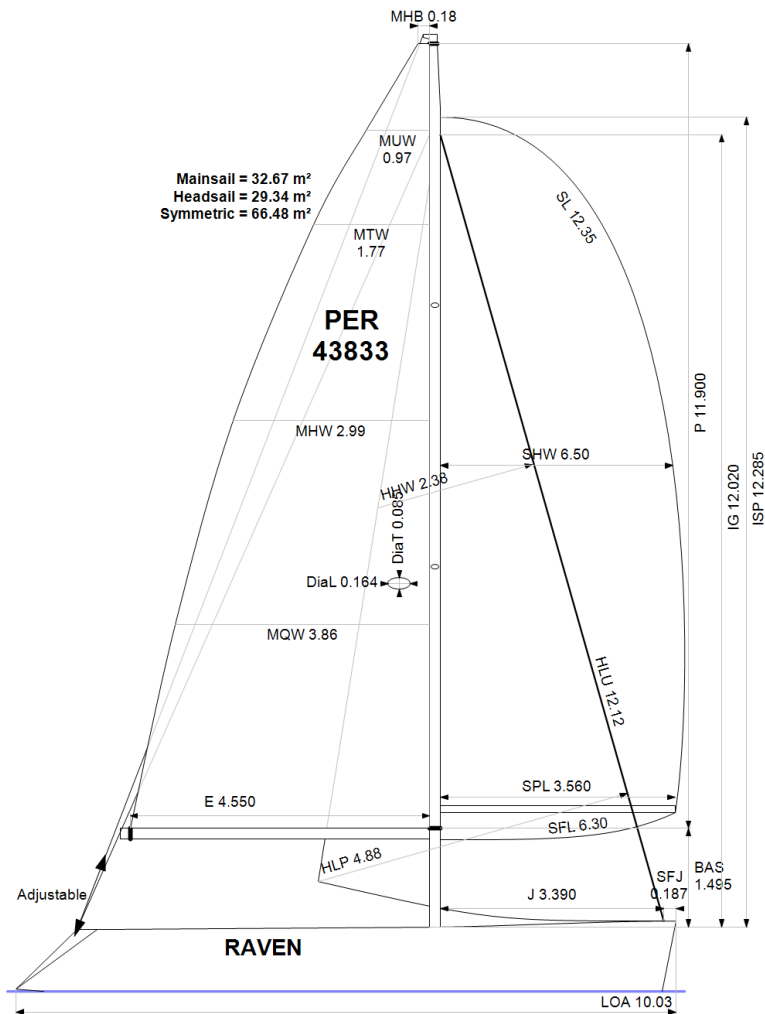
STABILITY

Righting Moment **83.7 kg·m**
Stability Index **111.7**

COMMENTS

EX AUDAZ

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	42.4°	40.8°	39.6°	37.8°	37.0°	36.6°	36.4°
Beat VMG	3.45	4.19	4.76	5.04	5.16	5.23	5.31
52°	5.25	6.23	6.81	7.05	7.15	7.20	7.26
60°	5.54	6.49	6.97	7.22	7.34	7.41	7.47
75°	5.76	6.66	7.09	7.39	7.62	7.78	7.93
90°	5.65	6.63	7.14	7.42	7.74	8.06	8.47
110°	5.48	6.63	7.21	7.63	8.08	8.41	8.89
120°	5.29	6.46	7.11	7.54	8.03	8.55	9.42
135°	4.74	5.87	6.75	7.24	7.66	8.16	9.37
150°	3.96	5.06	6.02	6.79	7.24	7.63	8.61
Run VMG	3.43	4.38	5.22	5.98	6.59	7.07	7.84
Gybe Angles	144.2°	149.3°	151.1°	157.4°	170.0°	178.1°	177.2°



International
Certificate
2022

Boat
RAVEN
PER 43833

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	1044.6	859.9	755.9	714.4	697.3	688.3	678.2
52°	686.2	577.6	528.4	510.5	503.7	499.8	495.6
60°	649.6	555.0	516.2	498.7	490.6	486.0	482.0
75°	625.2	540.3	507.5	487.4	472.2	462.9	454.2
90°	636.7	542.8	504.4	485.3	465.3	446.7	424.8
110°	657.4	542.9	499.5	471.6	445.5	427.9	405.1
120°	680.6	557.5	506.2	477.3	448.4	421.0	382.3
135°	759.8	613.1	533.0	497.4	470.2	441.1	384.2
150°	908.0	712.0	597.9	529.8	497.2	471.6	418.3
Run VMG	1048.5	822.2	690.0	602.4	546.5	509.0	459.3
Selected Courses							
Windward / Leeward	1046.6	841.0	722.9	658.4	621.9	598.7	568.7
All purpose	802.3	657.4	582.6	543.9	520.0	502.9	477.3

Single Number Scoring Options

Course	Time On Distance	Time On Time
Windward / Leeward	691.2	0.8680
All purpose	563.7	1.0644



Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Tripp 33	LOA	10.025	VCGD	0.091
Measurement	09/04/2015	Max. Beam	3.144	VCGM	0.055
HIN		Draft	2.119	RM Measured (kg·m)	83.7
Plan review		Displacement	3,888	RM Default (kg·m)	89.0
Hull construction	Cored	Wetted area	21.44	Limit of positive stability(°)	111.4
Carbon Rudder	No	IMS L	9.508	Stability Index	111.7
Light stanchions	No	LSM0	9.559		
Trim tab	No	Acc. length	10.025		
		Sink (kg/mm)	16.48		

PROPELLER

Propeller Type	Feathering 2 blades						
Installation	Shaft exposed	PRD	0.305	PSD	0.025	PSA	16.0°
Twin screw	No	PBW	0.084	PHD	0.050	ESL	0.852
Hydro generator	No	PIPA	0.0030	PHL	0.135	ST1	0.025
						ST4	0.042
						ST2	0.100
						ST5	0.170
						ST3	0.100

RIG

Forestay tension	Aft	P	11.900	E	4.550
Inner stay	None Fitted	IG	12.020	J	3.390
Carbon mast	No	ISP	12.285	BAS	1.495
Headsail furler	No	MDT1	0.085	FSD	0.026
Mainsail furler	No	MDL1	0.164	SFJ	0.187
Articulated bowsprit	No	MDT2	0.085	SPL	3.560
Non-circular rigging	No	MDL2	0.117	WPL	
Fiber rigging	No	TL	0.975	TPS	3.500
Runners/Checkstays	1	MW	0.117	BD	0.160
Spreaders	2	GO	0.117	MWT	
				MCG	

FLOTATION AND STABILITY

Calculation method	Poles inclining	SFFP	0.198	SAFP	8.788	W1	50.0	PD1	533.9	WD	11.430
Flotation Date	03/10/2019	FFM	1.065	FAM	0.935	W2	50.0	PD2	537.4	PLM	9000.00
Measurer		FF	1.065	FA	0.938	W3	50.0	PD3	536.7	GSA	1.0
Comment		LCFcl	5.465	LCFsh	5.677	W4	50.0	PD4	543.9	RSA	1.0
		SG	1.0253	HBI	0.980						

INVENTORY

<i>BALLAST</i>	<i>Id</i>	<i>Kind</i>	<i>Description</i>	<i>Weight</i>	<i>LCG</i>	<i>VCG</i>	<i>TCG</i>	
	1A		Fixed PLACAS DE PLOMO	595				
	<i>Fixed Ballast Total</i>			595				
<i>TANKS</i>	<i>Id</i>		<i>Description</i>	<i>Sp.Wght</i>	<i>Capacity</i>	<i>Condition</i>	<i>LCG</i>	<i>VCG</i>
	e6		Diesel flex ubicado bajo camilla de estribor centro	0.9000	55	27	6.43	0.20
	4B		Agua flex ubicado bajo camilla de babor centro		100	0	5.55	0.20
	<i>Total deductible</i>					24	6.43	0.20
<i>OTHER ITEMS</i>	<i>Id</i>	<i>Kind</i>	<i>Description</i>	<i>Weight</i>	<i>LCG</i>	<i>VCG</i>		
	E7		Battery 2 baerías bajo camilla estribor	28	5.45	0.20		
	C4		Engine westrebeke 12 HP					
	<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 Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
M2	0.18	0.97	1.77	2.99	3.86	32.67 14/05/2021	NORTH	Carbon	negra

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 Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
G2	0.08	0.63	1.20	2.38	3.62	4.88	12.12	No	No		29.34 11/09/2019	NORTH	Kevlar	REMEDIACION
G2-22	0.12	0.57	1.09	2.19	3.30	4.41	11.82	No	No		26.08 10/08/2022		Kevlar	USADA
1	0.08	0.49	0.95	1.74	2.49	3.20	11.96	No	No		20.23 24/08/2013	MAURY PRO SAIL	Kevlar	NUEVA

SYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Area Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
S2	12.35	12.35	12.35	6.50	6.30	66.48 14/05/2021	NORTH	Nylon	blanco
S3	11.99	11.99	11.99	6.62	6.40	65.71 11/09/2019	NORTH	Nylon	REMEDIACION
S1	11.93	11.93	11.93	6.23	6.34	62.16 26/03/2015	NORTH	Nylon	REMEDIACION