



MHR: **475.9**

CertNo:

**BOAT**

Class	Shift 54+
Designer	James Hakes
Builder	
Age date	03/2026
Series date	03/2026
Offset file	Shift54.off
Data file	Shift54+E15938 RM0.7

**HULL**

Length Overall	16.459
Maximum Beam	7.774
Draft	2.332
Displacement	16,500
DLR	3.7922
Dynamic Allowance	0.140%
Age Allowance	0.000%
RSA	0.000%

**PROPELLER**

Installation	Shaft exposed
Type	Folding 3 blades
Diameter	0.512m

**CREW**

Weight	562
Crew Arm Extension	

**SAIL AREAS (m<sup>2</sup>)**

	Measured
Mainsail	84.11
Headsail Luffed	71.30
Headsail Flying	138.45
Symmetric	
Asymmetric	213.11

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	47.9°	47.9°	46.9°	46.9°	46.4°	45.7°	44.6°	44.7°	43.9°
Beat VMG	2.20	3.33	4.24	4.43	5.06	5.61	6.07	6.71	7.03
52°	3.55	5.30	6.70	7.01	7.96	8.74	9.36	10.43	10.90
60°	3.89	5.78	7.29	7.64	8.58	9.33	10.00	11.32	12.14
75°	4.57	6.44	8.07	9.23	9.19	9.99	10.84	12.95	15.23
90°	4.65	6.63	8.31	9.49	10.38	11.21	12.72	14.26	18.79
110°	4.28	6.25	8.01	9.34	10.54	11.99	13.59	17.62	16.06
120°	4.12	6.03	7.79	9.13	10.25	11.55	13.27	17.45	14.15
135°	3.66	5.37	6.99	8.44	9.53	10.55	11.76	15.26	19.55
150°	3.07	4.53	5.94	7.28	8.46	9.38	10.23	12.61	16.10
Run VMG	2.66	3.92	5.14	6.31	7.33	8.13	8.86	10.92	13.95
Gybe Angles	143.5°	143.5°	144.8°	146.0°	148.7°	149.0°	147.6°	140.8°	139.3°



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	1633.7	1081.7	849.2	812.6	712.1	641.5	593.5	536.2	512.0
52°	1014.4	679.0	537.1	513.3	452.0	411.8	384.6	345.1	330.4
60°	925.0	622.6	493.9	471.3	419.6	385.8	360.1	318.0	296.6
75°	787.2	559.0	446.3	390.0	391.6	360.2	332.1	278.0	236.3
90°	774.5	542.8	433.0	379.4	346.8	321.1	283.1	252.5	191.6
110°	840.3	576.4	449.5	385.4	341.6	300.2	265.0	204.3	224.1
120°	873.7	596.5	462.4	394.1	351.3	311.6	271.3	206.3	254.5
135°	983.1	670.6	515.1	426.4	377.7	341.4	306.0	235.9	184.1
150°	1172.0	794.5	606.0	494.2	425.4	383.7	351.9	285.6	223.6
Run VMG	1353.3	917.4	699.8	570.7	491.2	443.0	406.3	329.7	258.1
Selected Courses									
Windward / Leeward	1497.7	999.6	774.5	691.7	601.6	542.3	499.9	433.0	385.1
All purpose	1107.5	748.4	583.8	519.6	461.4	417.1	381.0	325.1	295.4

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	626.3	0.9579
All purpose	475.9	1.2608



Data in meters/kilograms (Metric)

**HULL AND APPENDAGES (Lightship Trim)**

Class	<b>Shift 54+</b>	LOA	<b>16.459</b>	Superstructure frontal area	<b>18.67</b>
Measurement		Max. Beam	<b>7.774</b>	Superstructure lateral area	<b>35.01</b>
HIN		Draft	<b>2.332</b>	Default crew weight	<b>562</b>
		Displacement	<b>16,500</b>	Declared crew weight	<b>N/A</b>
		Dspl lightship	<b>15,938</b>		
		Wetted area	<b>55.25</b>		

**PROPELLER**

Propeller Type	<b>Folding 3 blades</b>										
Installation	<b>Shaft exposed</b>	PRD	<b>0.512</b>	PSD	<b>0.032</b>	PSA	<b>15.0°</b>	ST1	<b>0.032</b>	ST4	<b>0.089</b>
Twin screw	<b>Yes</b>	PBW		PHD	<b>0.095</b>	ESL	<b>1.520</b>	ST2	<b>0.127</b>	ST5	<b>0.343</b>
Hydro generator	<b>No</b>	PIPA	<b>0.0181</b>	PHL	<b>0.128</b>			ST3	<b>0.169</b>		

**RIG**

Single headsail furler	<b>Yes</b>	P	<b>18.740</b>	E	<b>6.530</b>	Foretriangles				
Mainsail furler	<b>No</b>	IG	<b>18.040</b>	J	<b>6.720</b>	<i>Id</i>	<i>I</i>	<i>TP</i>	<i>TPZ</i>	<i>Comment</i>
Articulated bowsprit	<b>No</b>	ISP	<b>21.000</b>	JZ	<b>1.718</b>	<b>0</b>	<b>18.040</b>	<b>6.720</b>	<b>1.718</b>	<b>main forestay</b>
Non-circular rigging	<b>No</b>	MDT1	<b>0.204</b>	BAS	<b>1.850</b>	<b>0</b>	<b>21.000</b>	<b>9.660</b>	<b>1.718</b>	<b>ISP/TPS</b>
Adjustable mast foot	<b>No</b>	MDL1	<b>0.360</b>	FSD		<b>1</b>	<b>20.060</b>	<b>9.660</b>	<b>1.720</b>	
Running backstays	<b>0</b>	MDT2	<b>0.204</b>	SFJ	<b>1.360</b>	<b>2</b>	<b>12.980</b>	<b>5.300</b>	<b>1.720</b>	
Checkstays	<b>0</b>	MDL2	<b>0.360</b>	SPL						
Spreaders	<b>1</b>	TL	<b>3.550</b>	WPL						
Jumper Struts	<b>No</b>	MW	<b>0.600</b>	TPS	<b>9.660</b>					
Rotating mast	<b>No</b>	GO	<b>0.608</b>	BD	<b>0.224</b>					
Mast rake	<b>3°</b>									
Mast cant angle	<b>0°</b>									

**FLOTATION**

Flotation Date **14/03/2026**



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**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>
Main	1.96	2.48	3.41	4.72	5.68	84.11		Sail Plan

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**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>Comment</i>
A3	0.01	1.96	3.68	6.66	9.07	11.04	22.42	No	Yes	1	138.45		Sail Plan
Reache	0.01					10.86	22.42	No	Inside	1	121.84		
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Genoa	0.01	0.72	1.51	3.38	5.62	8.25	19.26	No	No	0	71.30		
Staysail	0.01			2.50		4.87	14.53	No	Inner	2	35.64		

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**ASYMMETRIC SPINNAKER**

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Ratio</i>	<i>FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
A2	23.37	18.74	21.06	11.62	14.25	82%	0	213.11		Sail Plan