



MHR: **412.0**

CertNo:

BOAT

Class	Shift 54+Carbon
Designer	James Hakes
Builder	
Age date	03/2026
Series date	03/2026
Offset file	Shift54+Carbon.off
Data file	Shift54+C12050-RM1

HULL

Length Overall	16.459
Maximum Beam	7.774
Draft	3.568
Displacement	12,612
DLR	3.6563
Dynamic Allowance	0.200%
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 (m²)

	Measured
Mainsail	97.10
Headsail Luffed	80.55
Headsail Flying	126.82
Symmetric	
Asymmetric	243.31

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	45.7°	45.7°	44.8°	43.8°	42.0°	40.8°	41.6°	40.3°	40.8°
Beat VMG	2.75	4.14	5.29	5.61	6.36	7.01	7.72	7.89	7.87
52°	4.39	6.50	8.18	8.57	9.56	10.49	11.65	12.04	12.10
60°	4.86	7.02	8.65	9.05	10.09	11.20	12.73	13.33	13.58
75°	5.27	7.43	9.00	9.49	10.66	12.16	14.08	16.17	16.99
90°	5.30	7.30	8.93	10.22	10.72	12.35	14.81	17.73	20.74
110°	4.58	6.69	8.59	10.08	11.81	14.08	16.52	16.61	23.29
120°	4.41	6.49	8.39	9.83	11.39	13.43	16.02	14.02	18.42
135°	3.92	5.79	7.55	9.02	10.24	11.69	13.56	18.13	22.69
150°	3.31	4.86	6.35	7.76	8.93	9.96	11.21	14.84	19.13
Run VMG	2.86	4.21	5.50	6.72	7.73	8.63	9.70	12.85	16.56
Gybe Angles	142.4°	142.4°	143.3°	145.3°	149.0°	148.1°	140.8°	137.5°	137.8°



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	1309.1	869.2	680.8	641.6	566.4	513.7	466.6	456.6	457.6
52°	820.2	553.8	440.2	419.8	376.6	343.0	308.9	298.9	297.4
60°	740.6	513.0	416.1	397.7	356.8	321.3	282.7	270.1	265.2
75°	683.0	484.5	399.8	379.3	337.7	296.1	255.6	222.6	211.9
90°	679.4	493.4	403.0	352.2	336.0	291.4	243.0	203.1	173.6
110°	786.7	538.1	419.0	357.0	304.9	255.7	217.9	216.7	154.6
120°	816.9	554.5	429.2	366.3	316.1	268.1	224.7	256.8	195.5
135°	918.0	621.9	476.8	399.1	351.5	307.9	265.5	198.6	158.7
150°	1088.4	740.4	566.6	464.2	403.2	361.4	321.3	242.6	188.2
Run VMG	1256.7	855.0	654.3	536.0	465.6	417.3	371.0	280.1	217.4
Selected Courses									
Windward / Leeward	1285.7	862.1	667.5	588.8	516.0	465.5	418.8	368.3	337.5
All purpose	958.8	652.5	511.3	453.5	401.5	357.0	314.5	284.0	254.8

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	535.8	1.1198
All purpose	412.0	1.4564



Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Shift 54+Carbon	LOA	16.459	Superstructure frontal area	18.99
Measurement		Max. Beam	7.774	Superstructure lateral area	36.52
HIN		Draft	3.568	Default crew weight	562
		Displacement	12,612	Declared crew weight	N/A
		Dspl lightship	12,050		
		Wetted area	47.56		

PROPELLER

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

RIG

Single headsail furler	Yes	P	21.040	E	6.530
Mainsail furler	No	IG	19.180	J	7.180
Articulated bowsprit	No	ISP	22.900	JZ	1.661
Non-circular rigging	No	MDT1	0.278	BAS	1.520
Adjustable mast foot	No	MDL1	0.600	FSD	
Running backstays	0	MDT2	0.263	SFJ	0.902
Checkstays	0	MDL2	0.450	SPL	
Spreaders	0	TL	3.550	WPL	
Jumper Struts	No	MW	0.600	TPS	9.660
Rotating mast	Yes	GO	0.608	BD	0.256
Mast rake	3°				
Mast cant angle	0°				

Foretriangles

Id	I	TP	TPZ	Comment
0	19.180	7.180	1.661	main forestay
0	22.900	9.660	1.661	ISP/TPS
1	21.090	9.660	1.720	Reacher
2	13.000	6.725	1.720	Staysail
3	8.422	5.300	1.720	Storm Jib

FLOTATION

Flotation Date **14/03/2026**

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	2.09	2.66	3.63	4.88	5.74	97.10		Sail Plan

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>
Reache	0.05	1.27	2.60	5.36	8.20	11.05	23.35	No	Inside 1 shrouc	126.82		Sail Plan
Genoa	0.05	0.77	1.65	3.66	5.94	8.39	20.70	No	No 0	80.55		Sail Plan
Staysail	0.05	0.71	1.41	2.77	3.88	4.93	14.46	No	No 2	37.86		Sail Plan
Storm Jib	0.05	0.35	0.74	1.69	2.84	4.20	9.96	No	No 3	18.61		Sail Plan

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>
ASpin	25.00	20.50	22.75	12.48	14.25	88%	0	243.31		Sail Plan