



APH: 522.8 CDL: 8.972
GPH: 579.7 CertNo: US6139

BOAT	
Class	FARR 30
Designer	FARR
Builder	CARROLL
Age date	03/1996
Series date	03/1996
Offset file	FARR30.OD.OFF
Data file	US6139
HULL	
Length Overall	9.430 m
Maximum Beam	3.038 m
Draft	2.128 m
Displacement	2,211 kg
DLR	3.6315
IMS Division	Performance
Dynamic Allowance	0.000%
Age Allowance	0.487%
PROPELLER	
Installation	Strut
Type	Folding 2 blades
Diameter	0.352m
CREW	
Maximum weight	544 kg
Minimum weight	408 kg * when applied
Non Manual Power	No
Crew Arm Extension	

Rated boat velocities in knots								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat Angles	41.7°	38.8°	37.0°	36.4°	36.0°	35.8°	36.4°	
Beat VMG	3.95	4.67	5.00	5.15	5.23	5.28	5.27	
52°	5.91	6.68	6.97	7.12	7.21	7.28	7.34	
60°	6.18	6.85	7.17	7.34	7.46	7.55	7.65	
75°	6.35	6.98	7.38	7.68	7.88	8.03	8.23	
90°	6.42	7.12	7.53	7.85	8.22	8.53	8.96	
110°	6.39	7.18	7.71	8.28	8.82	9.29	10.15	
120°	6.28	7.18	7.81	8.34	8.94	9.71	11.15	
135°	5.64	6.84	7.57	8.34	9.24	10.21	11.92	
150°	4.76	5.96	6.85	7.53	8.19	9.14	11.81	
Run VMG	4.12	5.16	5.93	6.52	7.09	7.92	10.23	
Gybe Angles	143.3°	147.5°	150.5°	150.1°	147.1°	145.0°	145.8°	

SAIL AREAS (m ²)		
	Measured	Rated
Mainsail	34.82	35.88
Headsail Luffed	20.99	20.99
Headsail Flying		
Symmetric		
Asymmetric	106.16	106.16
<i>(1 asymmetric(s) with SHW/SFL < 85%)</i>		
STORM SAIL AREAS (m ²)		
Trysail	9.61	
Storm Jib	6.78	
Heavy Weather Jib	18.30	
SAIL LIMITS		
Headsails	5	
Spinnakers	4	
STABILITY		
Righting Moment	N/A	
Stability Index	N/A	

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.

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Time Allowances in secs/NM								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	912.3	770.1	720.5	699.4	688.1	681.7	682.5	
52°	609.1	539.0	516.5	505.9	499.1	494.3	490.3	
60°	582.9	525.3	502.4	490.5	482.3	476.5	470.4	
75°	566.7	515.7	487.6	468.7	457.0	448.3	437.4	
90°	561.0	505.6	477.9	458.4	437.8	422.2	401.8	
110°	563.5	501.2	467.0	434.9	408.2	387.5	354.7	
120°	572.8	501.4	461.0	431.5	402.5	370.7	322.8	
135°	638.6	526.2	475.3	431.5	389.6	352.6	301.9	
150°	756.4	603.9	525.8	478.2	439.7	393.8	304.9	
Run VMG	873.4	697.4	606.8	552.1	507.7	454.7	352.1	
Selected Courses								
Windward / Leeward	892.8	733.7	663.7	625.7	597.9	568.2	517.3	
All purpose	691.8	588.5	542.3	513.6	490.6	469.0	435.5	

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	640.7	0.9364
All purpose	522.8	1.1477

Custom scoring options for United States of America

Scoring Option	Time On Distance	Time On Time
Triple Number All Purpose Low	640.1	0.9373
Triple Number All Purpose Medium	523.7	1.1458
Triple Number All Purpose High	461.9	1.2991
Triple Number Windward/Leeward Low	813.3	0.7377
Triple Number Windward/Leeward Medium	640.4	0.9369
Triple Number Windward/Leeward High	556.5	1.0781
Predominantly Upwind	571.2	1.0505
Predominantly Downwind	518.1	1.1580
Predominantly Upwind Low	710.4	0.8446
Predominantly Upwind Medium	597.9	1.0035
Predominantly Upwind High	568.3	1.0559
Predominantly Downwind Low	692.3	0.8667
Predominantly Downwind Medium	517.1	1.1603
Predominantly Downwind High	409.7	1.4646
Chicago-Mac Upwind		1.0337
Chicago-Mac All Purpose		1.0810
Chicago-Mac Downwind		1.1368
Bayview-Mac Cove Island		1.0182
Bayview-Mac Shore		1.0213
Harvest Moon Regatta	445.5	1.3469

Scoring Option	Time On Distance	Time On Time
San Francisco Bay Heavy	542.5	1.1060
San Francisco Bay Medium	624.6	0.9606
Predominantly Reaching	493.8	1.2152
Predominantly Reaching Low	582.4	1.0301
Predominantly Reaching Medium	491.5	1.2207
Predominantly Reaching High	424.6	1.4130
Windward/Leeward 60-40 Low	818.9	0.7327
Windward/Leeward 60-40 Medium	663.9	0.9038
Windward/Leeward 60-40 High	599.8	1.0004

5-Band Windward/Leeward	Time On Distance	Time On Time
5-Band Low	880.6	0.6814
5-Band Low / Medium	754.8	0.7950
5-Band Medium	631.6	0.9500
5-Band Medium / High	569.5	1.0535
5-Band High	526.1	1.1404

AUS AUT BRA BUL CAN CYP DEN ESP EST FIN FRA GER GRE HUN ISR JPN KOR LTU NED NOR POR RSA RUS SLO SUI SWE UKR USA

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Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)			
Class	FARR 30	LOA	9.430
Measurement	29/05/1996	Max. Beam	3.038
HIN	3	Draft	2.128
Plan review		Displacement	2,211
Hull construction	Cored	Wetted area	15.74
Carbon Rudder	Yes	IMS L	8.826
Light stanchions	No	LSM0	8.474
Trim tab	No	Acc. length	9.435
		Sink (kg/mm)	11.70
		VCGD	-0.355
		VCGM	-0.299
		RM Rated (kg-m)	49.4
		Limit of positive stability(*)	N/A
		Stability Index	N/A

PROPELLER			
Propeller Type	Folding 2 blades		
Installation	Strut	PRD	0.352
Twin screw	No	PBW	0.090
Hydro generator	No	PIPA	0.0032
		EDL	1.278
		ST1	0.042
		ST2	0.178
		ST3	0.178
		ST4	0.114
		ST5	0.248

RIG			
Forestay tension	Aft	P	12.360
Inner stay	None Fitted	IG	11.640
Carbon mast	Yes	ISP	13.620
Headsail furler	No	MDT1	0.085
Mainsail furler	No	MDL1	0.143
Articulated bowsprit	No	MDT2	0.065
Non-circular rigging	No	MDL2	0.105
Fiber rigging	No	TL	2.000
Runners/Checkstays	0	MW	0.143
Spreaders	2	GO	0.143
Rotating mast	No		
		E	4.440
		J	3.320
		BAS	1.255
		FSD	0.027
		SFJ	0.100
		SPL	0.000
		WPL	
		TPS	5.110
		BD	0.134
		MWT	
		MCG	

FLOTATION AND STABILITY							
Calculation method	Poles Inclining	SFFP	0.222	SAFP	8.685	W1	33.4
Flotation Date	02/04/2016	FFM		FAM		W2	33.4
Measurer		FF	1.039	FA	0.776	W3	33.4
Comment		LCFcl	5.270	LCFsh	5.471	W4	33.4
		SG	1.0265	HBI	0.938	PD1	571.3
						WD	10.648
						PLM	9000.00
						GSA	1.0
						RSA	1.0
						RM	49.1

INVENTORY							
TANKS	Id	Description	Sp.Wght	Capacity	Condition	LCG	VCG
					0	0.00	0.00
Total deductible							0
OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG	
	a		Anchor	g	0.00		
Total deductible							0

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MAINSAIL									
Id	MHB	MUW	MTW	MHW	MQW	Area	Meas.	Date	Comment
158118:	0.18	1.11	1.96	3.17	3.81	34.82			

HEADSAIL														
Id	HMB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Meas.	Date	Comment
158119:	0.09	0.54	1.00	1.74	2.60	3.45	11.85	Yes	No		20.99			

ASYMMETRIC SPINNAKER										
Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Meas.	Date	Comment
A1.5	15.60	13.08	14.34	8.84	9.06	98%	106.16		11/04/2017	
C0	12.09	11.10	11.60	5.11	6.36	80%	51.79		20/03/2023	

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