

BOAT Name Setsail Sail Nr ROU 69	GPH 534.3	HULL Length Overall 12.415m Maximum Beam 3.956m Displacement 5,290kg Draft 2.605m IMS Reg. Division Performance Dynamic Allowance 0.001% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class Farr 40 Designer Farr Builder Carroll Series 05/1997 Age 05/1997 Age Allowance 0.487% Offset File US30782A.OFF - 12/10/1999 08:51:16 Measurement by Noceti - 10/04/2013		IMSL 11.316m VCGD -0.199m Sink 21.56kg/mm RL 11.028m VCGM -0.212m WS 28.34m² LSMO 10.993m Displacement/Length ratio 3.9821



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SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Time On Distance	521.0			585.6	
Time On Time	1.1516			1.1527		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	603.1	477.4	420.7	780.3	589.4	513.2
Time on Time	1.1193	1.4140	1.6046	0.8650	1.1453	1.3153

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	897.2	737.5	664.6	635.9	620.7	607.1	601.3
52°	583.4	489.3	460.8	450.2	444.1	438.0	429.1
60°	545.9	470.7	446.5	435.0	427.3	422.1	408.2
75°	513.7	457.7	430.6	409.8	398.5	391.3	379.1
90°	512.9	455.7	427.9	399.8	377.4	363.7	351.3
110°	529.9	453.4	423.1	402.6	383.3	366.2	322.1
120°	545.9	459.3	421.3	391.4	372.3	355.3	318.1
135°	604.3	488.2	443.7	409.2	374.0	338.1	294.2
150°	716.3	571.2	488.9	445.7	414.5	382.7	318.0
Run VMG	827.1	659.6	564.5	505.9	467.2	436.2	367.2

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Crew Weight

Declared **930kg**
Default* **788kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **567.2 1.0578**
Non Spin OSN **554.5 1.0821**

Selected Courses							
Windward / Leeward	862.2	698.6	614.6	570.9	543.9	521.6	484.3
Circular Random	728.6	591.9	519.3	476.8	449.1	429.0	399.3
Ocean for PCS	894.5	694.6	582.6	513.7	467.3	432.8	380.4
Non Spinnaker	787.0	633.4	550.3	500.9	469.1	446.9	416.4

Sails Limitations

Headsails	Spinnakers
6	4

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.2°	42.5°	39.9°	38.6°	37.7°	36.9°	37.1°
Beat VMG	4.01	4.88	5.42	5.66	5.80	5.93	5.99
52°	6.17	7.36	7.81	8.00	8.11	8.22	8.39
60°	6.59	7.65	8.06	8.28	8.42	8.53	8.82
75°	7.01	7.87	8.36	8.78	9.03	9.20	9.50
90°	7.02	7.90	8.41	9.01	9.54	9.90	10.25
110°	6.79	7.94	8.51	8.94	9.39	9.83	11.18
120°	6.59	7.84	8.54	9.20	9.67	10.13	11.32
135°	5.96	7.37	8.11	8.80	9.63	10.65	12.24
150°	5.03	6.30	7.36	8.08	8.69	9.41	11.32
Run VMG	4.35	5.46	6.38	7.12	7.71	8.25	9.80
Gybe Angles	143.5°	142.4°	149.9°	157.2°	172.5°	180.0°	142.4°

Class Division Length
CDL = **11.173**

Storm Sails Areas


Heavy Weather Jib **35.33**
Storm Jib (JL=10.52) **13.09**
Storm Trysail **17.16**

Owner

BOAT	
Name Setsail	Sail Nr ROU 69
File ROU69	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 10/04/2013		SG 1.0200	
FFM 1.346	FF 1.347	SFFP 0.152	
FAM 0.995	FA 0.998	SAFP 11.954	
W1 83.0	PD1 545.4	WD 13.930	
W2 83.0	PD2 547.2	GSA 1.0	
W3 83.0	PD3 544.9	RSA 1.0	
W4 83.0	PD4 546.1	PLM 9000.0	
LCF from stem on CL / on sheer		6.907 / 7.164	
Maximum beam station from stem		8.199	
RM Measured		166.8kg·m	
RM Default		170.8kg·m	
Limit of positive stability / Stab.Index		125.6° / 122.1	
Freeboard at mast at 4.670		1.195	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast Yes	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 16.700	E 5.870	MDT1 0.124	MW 0.242
IG 16.150	J 4.670	MDL1 0.242	GO 0.250
ISP 18.280	SFJ 0.000	MDT2 0.093	BD 0.225
BAS 1.750	SPL 5.200	MDL2 0.106	MWT 185.00
FSP 0.066	TPS	TL 1.700	MCG 5.780




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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.420		
Type Folding 2 blades	PBW 0.105		
Twin Screw No	PIPA 0.0036		
ST1 0.046	ST3 0.180	ST5 0.265	
ST2 0.180	ST4 0.112	EDL 0.690	

COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.170	1.45	2.58	4.20	5.20	62.78	64.65	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	161.54		SL · (SFL + 4·SHW) / 6	
	18.50	18.50	18.50	10.50	10.39				
Asymmetric Not Available									

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.09	0.70	1.33	2.56	3.73	4.90	16.45	41.45			23/03/2017	Unknow	2017
0.09	0.71	1.33	2.54	3.71	4.90	16.44	41.30			22/11/2016	Unknow	2017
0.07	0.74	1.37	2.59	3.75	4.91	16.12	40.99			19/05/2004	Kevlar	
0.10	0.69	1.32	2.53	3.68	4.85	16.11	40.14			19/04/2016	Kevlar	

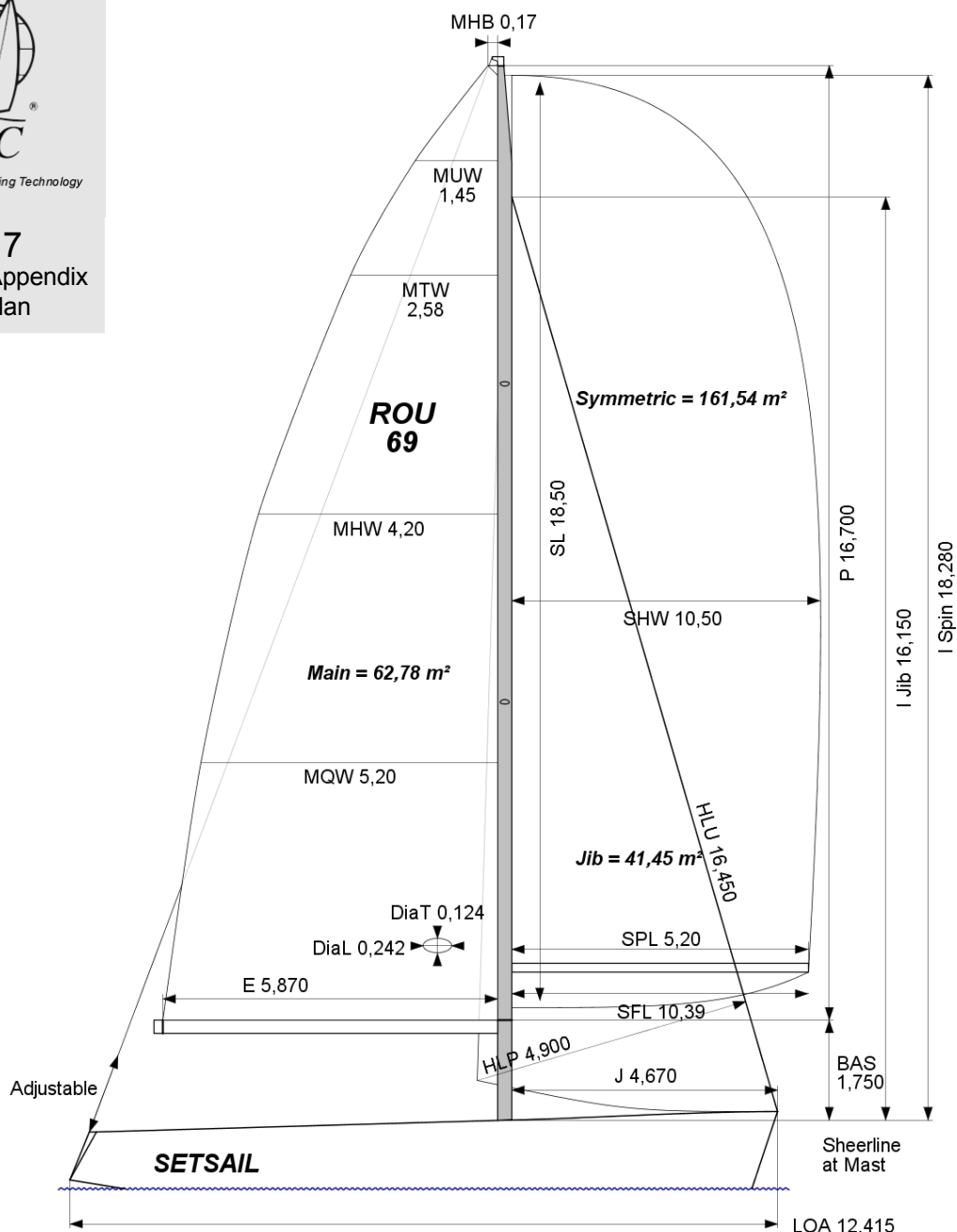
MEASUREMENT INVENTORY				
Measurer				
Date				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
SaS	Tools	18.0	8.68	0.00 Sailor-Services
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>



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Sail Plan



SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
m	0.170	1.45	2.58	4.20	5.20	62.78	Shyamali	22/09/2016	North	Carbon	2017					
HEADSAILS (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
JL	0.09	0.70	1.33	2.56	3.73	4.90	16.45	105%	41.45			Menaka	23/03/2017	North	Nylon	Unknow 2017
J-L-M	0.09	0.71	1.33	2.54	3.71	4.90	16.44	105%	41.30			Jinadari	22/11/2016	North	Unknown	Unknow 2017
G04	0.07	0.74	1.37	2.59	3.75	4.91	16.12	105%	40.99			A.Panait	19/05/2004	Diamond	Kevlar	
ML03	0.10	0.69	1.32	2.53	3.68	4.85	16.11	104%	40.14			A.Panait	19/04/2016	UK	Kevlar	
SYMMETRIC SPINNAKERS (4)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
S2-	18.50	18.50	18.50	10.50	10.39	161.54	hemamali	21/12/2016	North Sails	Nylon	2017					
S1-	18.50	18.50	18.50	10.50	10.10	160.64	hemamali	15/11/2016	North Sails	Unknown	2017					
S1..	18.50	18.50	18.50	10.50	10.01	160.36	hemamali	15/12/2016	North Sails	Unknown	2017					
S2-03	16.00	16.00	16.00	8.33	8.20	110.72	A.Panait	19/04/2016	NS	Nylon						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				