

BOAT Name ANDROMEDA Sail Nr GRE-49063	GPH 701.5	HULL Length Overall 11.700m Maximum Beam 4.046m Displacement 9,525kg Draft 1.726m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.665% Hull Construction Solid Carbon Rudder No Crew Arm Extension IMSL 10.098m VCGD 0.388m Sink 26.24kg/mm RL 5.983m VCGM 0.102m WS 35.72m² LSM0 10.194m Displacement/Length ratio 8.9915
GENERAL Class MOODY 39 Designer A.PRIMROSE Builder MARINE PROJECTS Series 01/1977 Age 01/1977 Age Allowance 0.487% Offset File GR0064.BOF - 20/11/1995 17:07:00 Measurement by - 24/09/2002		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	679.6			765.7		
Time on Time	0.8829			0.8816		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	829.7	616.9	528.6	1083.6	779.9	642.2
Time on Time	0.8135	1.0941	1.2769	0.6229	0.8655	1.0511

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1298.8	1063.6	948.4	863.3	802.2	764.8	746.4
52°	823.8	685.6	609.9	558.4	527.1	510.6	501.4
60°	758.2	640.5	572.4	530.4	508.1	494.7	484.4
75°	712.5	607.4	544.2	511.3	493.4	480.7	462.6
90°	716.5	606.7	534.7	497.8	478.8	465.7	446.7
110°	714.1	588.5	518.8	487.7	467.7	449.6	422.3
120°	733.8	599.7	525.3	491.1	470.2	451.1	416.8
135°	808.3	651.4	557.4	508.3	483.3	464.2	427.6
150°	957.3	750.3	627.6	552.9	508.0	484.9	449.8
Run VMG	1105.4	866.5	724.2	632.2	569.9	522.7	476.3

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Number **01079**
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VPP Ver. **2020 1.01**
Valid until **28/02/2021**

Crew Weight
Default **708kg**
Maximum **600kg**
Minimum* **450kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **733.3 0.8182**
Non Spin OSN **708.9 0.8464**

Selected Courses							
Windward / Leeward	1202.1	965.1	836.3	747.8	686.0	643.7	611.4
Circular Random	988.8	790.0	679.9	613.1	570.3	542.0	509.6
Coastal / Long Distance	1192.4	901.9	743.7	639.8	579.0	537.0	481.9
Non Spinnaker	1043.7	829.6	710.1	637.0	589.8	558.3	521.1

Sails Limitations
Headsails **5** Spinnakers **4**
Woven Polyester

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	46.5°	44.6°	45.4°	44.4°	44.6°	43.9°	43.1°
Beat VMG	2.77	3.38	3.80	4.17	4.49	4.71	4.82
52°	4.37	5.25	5.90	6.45	6.83	7.05	7.18
60°	4.75	5.62	6.29	6.79	7.09	7.28	7.43
75°	5.05	5.93	6.62	7.04	7.30	7.49	7.78
90°	5.02	5.93	6.73	7.23	7.52	7.73	8.06
110°	5.04	6.12	6.94	7.38	7.70	8.01	8.52
120°	4.91	6.00	6.85	7.33	7.66	7.98	8.64
135°	4.45	5.53	6.46	7.08	7.45	7.75	8.42
150°	3.76	4.80	5.74	6.51	7.09	7.42	8.00
Run VMG	3.26	4.15	4.97	5.69	6.32	6.89	7.56
Gybe Angles	147.0°	150.5°	151.0°	155.0°	168.0°	180.0°	180.0°

Class Division Length
CDL = **8.027**

Storm Sails Areas
Heavy Weather Jib **27.26**
Storm Jib (JL=9.24) **10.10**
Storm Trysail **9.45**

Owner

BOAT			
Name ANDROMEDA	Sail Nr GRE-49063		
File GR49063	Data in meters/kilograms		
RIG			
Forestay Tension Aft	Spreaders 1		
Inner Stay Fixed	Runners/Checkstays 0		
Carbon Mast No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Non-Circular Rigging No			
Articulated Bowsprit No			
P 12.240	E 4.410	MDT1 0.170	MW 0.165
IG 14.080	J 4.940	MDL1 0.215	GO 0.210
ISP 14.100	SFJ 0.000	MDT2 0.150	BD 0.100
BAS 1.535	SPL 5.100	MDL2 0.170	MWT
FSD	TPS 4.910	TL 2.140	MCG

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 02/04/1994		SG 1.0300	
FFM 1.632	FF 1.642	SFFP 1.250	
FAM 1.282	FA 1.279	SAFP 11.090	
W1 18.0	PD1 67.9	WD 13.610	
W2 36.0	PD2 135.1	GSA 1.0	
W3 54.0	PD3 202.8	RSA 1.0	
W4 72.0	PD4 272.1	PLM 9000.0	
LCF from stem on CL / on sheer		6.749 / 7.043	
Maximum beam station from stem		6.800	
RM Measured		285.6kg-m	
RM Default		248.9kg-m	
Limit of positive stability / Stab.Index		113.9° / 118.2	
Freeboard at mast at 4.940		1.327	



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MIZZEN RIG AND SAILS			
N/A			

PROPELLER			
Installation Shaft exposed	PRD 0.420		
Type Feathering 3 blades	PBW 0.148		
Twin Screw No	PIPA 0.0051		
PSA 20.000	PHL 0.130	ST3 0.121	ESL 1.070
PSD 0.030	ST1 0.017	ST4 0.065	
PHD 0.055	ST2 0.121	ST5 0.240	

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COMMENTS			

MOVABLE BALLAST			
N/A			

CENTERBOARD			
N/A			

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.14	0.89	1.60	2.71	3.61	31.23	31.79	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	14.18	14.18	14.18	9.16	9.08	108.05		SL · (SFL + 4·SHW) / 6	
Asymmetric	SLU	SLE	SL	SHW	SFL				
	14.52	13.08	13.80	5.82	7.09	69.85		AS · (SFL + 4·SHW) / 6	

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	Flying	Meas.Date	Material	Comment
0.04	0.90	1.81	3.69	5.59	7.45	14.09	52.24	No	02/02/2018	Dacron	No.1	
0.05	0.84	1.71	3.57	5.47	7.25	13.78	49.59	No	06/03/2017	Dacron	No.1	Cruising
					6.60	13.66	45.89	No	01/02/1991	Dacron	No.1	Light
0.08	0.77	1.54	3.12	4.73	6.39	13.70	43.24	No	02/02/2018	Dacron	No.2	
					5.81	12.30	36.38	No	14/03/2015	Dacron	No.3	
					4.12	11.84	24.83	Inner	14/03/2015	Nylon	DRIFTER	
0.06	0.53	1.03	2.05	3.07	4.12	11.67	24.03	No	02/02/2018	Dacron	HWJ	
					4.37	10.18	22.65	No	14/03/2015	Dacron	HWJ-2	

MEASUREMENT INVENTORY				
Measurer GRE-9				
Date 02/04/1994				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
4	Anchor	20.0	8.50	ANCHOR
2	Anchor	20.0	8.50	ANCHOR &
4	Chain	40.0	0.80	
4	Tools	20.0	5.80	
Id	Item	Maker	Model	
1	Engine	THORNYCROFT	108	
Id	Item	Weight	Description	
4	Fwd Items	40.0		

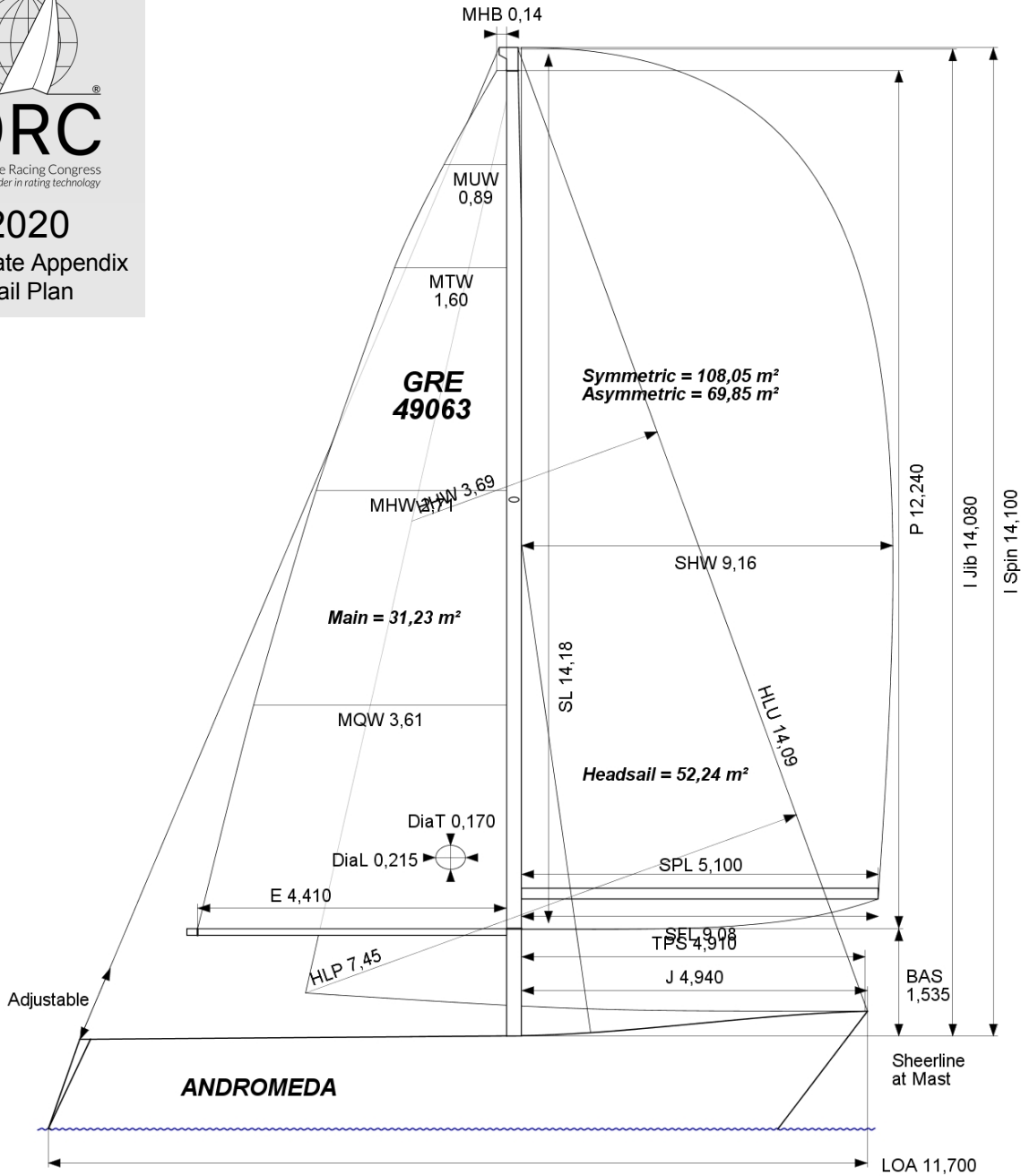
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
1	Tank	FUEL	INOX	200.0	7.30		0-0
2	Tank	WATER	INOX	400.0	6.00		0-0
Id	Item	Weight	Distance	VCG Description			
1	Battery	80.0	8.60	4 x 90 Ah = 4 x 20 kg			



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Sail Plan



SAILS INVENTORY

MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0.14	0.89	1.60	2.71	3.61	31.23		23/01/2020	KAKITSIS	Dacron						
1	0.14	0.83	1.52	2.67	3.60	30.80		20/06/2001	KAKITSIS	Dacron						
HEADSAILS (8)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.04	0.90	1.81	3.69	5.59	7.45	14.09	151%	52.24	No	No		02/02/2018	KAKITSIS	Dacron	No.1
3	0.05	0.84	1.71	3.57	5.47	7.25	13.78	147%	49.59	No	No		06/03/2017	KAKITSIS	Dacron	No.1 Cruising
1						6.60	13.66	134%	45.89	No	No		01/02/1991	KAKITSIS	Dacron	No.1 Light
4	0.08	0.77	1.54	3.12	4.73	6.39	13.70	129%	43.24	No	No		02/02/2018	AAthanassio	Dacron	No.2
5						5.81	12.30	118%	36.38	No	No		14/03/2015	KAKITSIS	Dacron	No.3
8						4.12	11.84	83%	24.83	Inner	No		14/03/2015	KAKITSIS	Nylon	DRIFTER
6	0.06	0.53	1.03	2.05	3.07	4.12	11.67	83%	24.03	No	No		02/02/2018	AAthanssiou	Dacron	HWJ
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	14.18	14.18	14.18	9.16	9.08	108.06		01/11/2001	KAKITSIS	Nylon						
2	13.88	13.88	13.88	8.84	8.84	103.04		17/03/1994	KAKITSIS	Nylon						
3	13.05	13.05	13.05	7.47	7.82	82.00		14/03/2015	KAKITSIS	Nylon						
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	14.52	13.08	13.80	5.82	7.09	69.86	asy83		02/02/2018	KAKITSIS	Nylon					