

BOAT Name WEDDELL Sail Nr ITA3956	GPH 412.5	HULL Length Overall 24.000m Maximum Beam 6.174m Displacement 26,571kg Draft 4.053m IMS Reg. Division Dynamic Allowance 0.003% Fwd Accommodation No Hull Construction Carbon Carbon Rudder No Crew Arm Extension IMSL 22.105m VCGD -0.346m Sink 61.81kg/mm RL 19.758m VCGM -0.455m WS 80.90m² LSM0 21.621m Displacement/Length ratio 2.6289
GENERAL Class Grand Mistral 80 Designer FARR Builder Series 07/1996, CIN 1 Age 07/1996 Age Allowance 0.487% Offset File F168A.OFF - 10/11/2017 15:38:10 Measurement by - 01/07/2017		

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	402.7			457.3		
Time On Time	1.4898			1.4761		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	479.9	364.3	314.7	636.4	460.6	389.5
Time on Time	1.4064	1.8531	2.1451	1.0607	1.4656	1.7329

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	707.4	576.9	509.5	475.0	455.4	440.8	425.2
52°	452.5	374.1	341.8	329.4	322.2	317.4	305.3
60°	418.1	352.4	329.0	318.3	310.5	304.4	291.3
75°	386.5	336.0	317.1	301.8	291.0	283.3	273.8
90°	382.8	332.8	312.1	294.0	279.3	267.2	253.4
110°	420.5	347.0	320.5	300.0	285.3	268.7	240.8
120°	447.2	357.9	321.9	300.7	279.9	266.5	241.6
135°	508.2	399.0	342.3	317.0	292.9	269.1	233.7
150°	612.0	480.2	401.1	354.7	323.5	305.0	263.6
Run VMG	706.7	554.4	463.2	409.6	375.5	353.2	304.4
Selected Courses							
Windward / Leeward	707.0	565.7	486.3	442.3	415.4	397.0	364.8
Circular Random	575.6	461.8	400.0	363.1	339.1	321.9	296.5
Ocean for PCS	719.5	549.6	453.1	393.3	353.6	324.8	283.1
Non Spinnaker	612.6	489.8	422.1	380.8	353.3	333.6	305.7

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	44.7°	43.4°	42.0°	39.8°	38.4°	37.2°	36.0°
Beat VMG	5.09	6.24	7.07	7.58	7.91	8.17	8.47
52°	7.96	9.62	10.53	10.93	11.17	11.34	11.79
60°	8.61	10.22	10.94	11.31	11.60	11.83	12.36
75°	9.31	10.71	11.35	11.93	12.37	12.71	13.15
90°	9.40	10.82	11.54	12.24	12.89	13.47	14.21
110°	8.56	10.37	11.23	12.00	12.62	13.40	14.95
120°	8.05	10.06	11.18	11.97	12.86	13.51	14.90
135°	7.08	9.02	10.52	11.36	12.29	13.38	15.40
150°	5.88	7.50	8.98	10.15	11.13	11.80	13.66
Run VMG	5.09	6.49	7.77	8.79	9.59	10.19	11.83
Gybe Angles	139.7°	140.9°	143.2°	148.5°	153.0°	151.5°	147.1°



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2017
ORC International
Certificate

Rating Office

Offshore
Racing
Congress

Invalid for
Racing

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Certificate
Number **286200**
ORC Ref **AUS00001243**
Issued On **19/12/2017**
VPP Ver. **2017 1.00**
Valid until **30/06/2018**

Crew Weight
Declared **2,295kg**
Default* **2,067kg**
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **435.3 1.3784**
Non Spin OSN **428.6 1.3997**

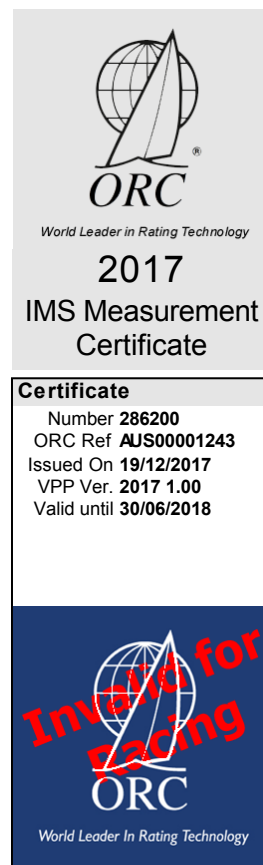
Sails Limitations
Headsails **8** Spinnakers **6**

Class Division Length
CDL = 20.933

Storm Sails Areas
Heavy Weather Jib **113.8**
Storm Jib (JL=18.87) **42.15**
Storm Trysail **54.64**

Owner

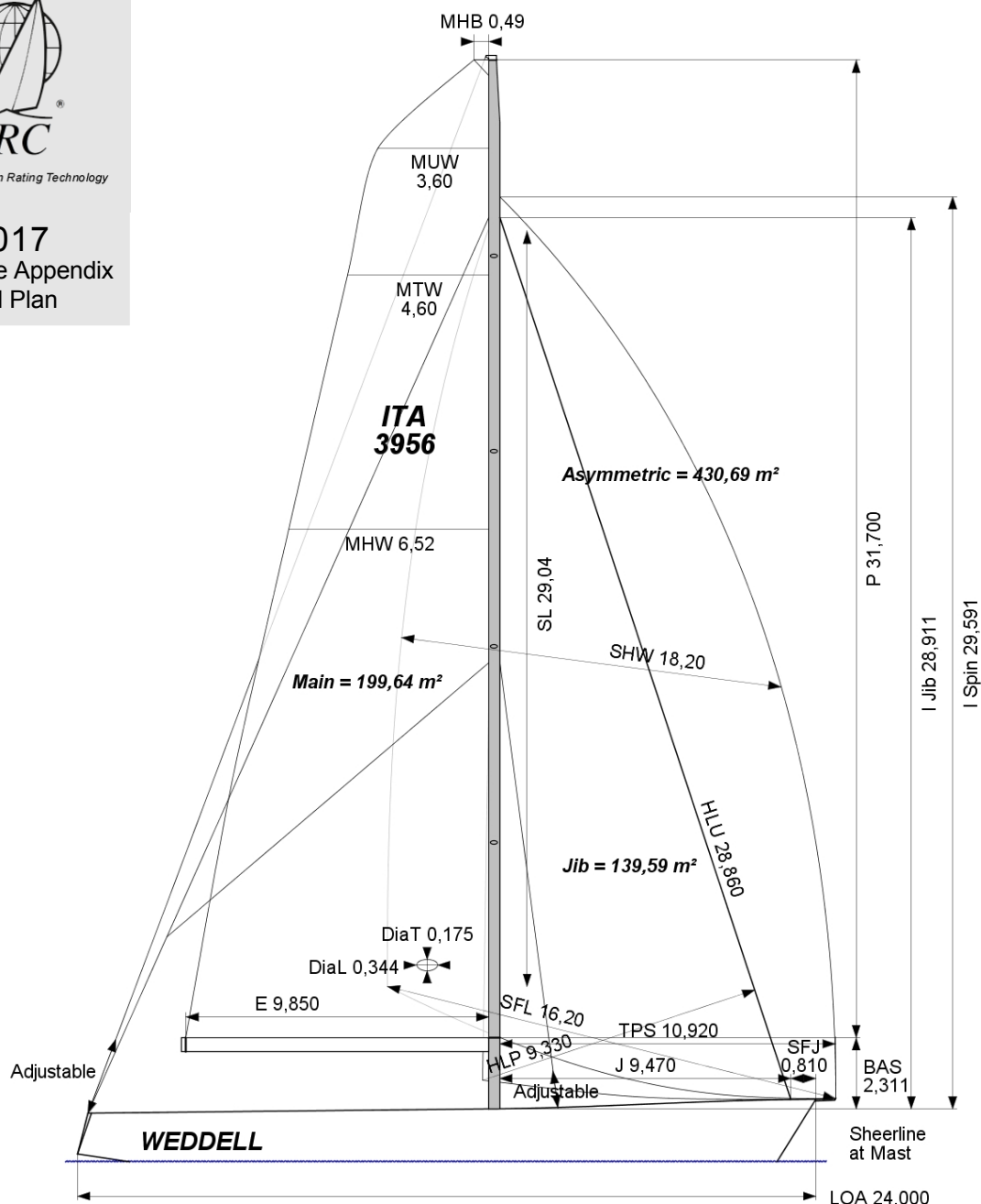
BOAT										INCLINING TEST AND FREEBOARDS									
Name WEDDELL					Sail Nr ITA3956					Inclining Test Current Inclining									
File 2862					Data in meters/kilograms					Flotation date 01/07/2017					SG 1.0250				
RIG										FFM 2.006 FF 2.006 SFFP 0.800									
Forestay Tension Aft Spreaders 4										FAM 1.561 FA 1.561 SAFF 23.546									
Inner Stay Adjustable Runners 2										W1 242.0 PD1 269.0 WD 25.480									
Carbon Mast Yes Jumper Struts None										W2 242.0 PD2 269.0 GSA 0.5									
Taper Hollows No Jib Furler No										W3 242.0 PD3 269.0 RSA 71.7									
Fiber Rigging No Main Furler No										W4 242.0 PD4 269.0 PLM 2818.0									
Lenticular Rigging No Without Backstay No										LCF from stem on CL / on sheer 13.810 / 14.134									
Articulated Bowsprit No										Maximum beam station from stem 16.211									
P 31.700 E 9.850 MDT1 0.175 MW 0.344										RM Measured 1122.6kg·m									
IG 28.911 J 9.470 MDL1 0.344 GO 0.384										RM Default 1118.6kg·m									
ISP 29.591 SFJ 0.810 MDT2 0.170 BD 0.445										Limit of positive stability / Stab.Index 120.0° / 130.1									
BAS 2.311 SPL 0.000 MDL2 0.240 MWT 0.00										Freeboard at mast at 10.280 1.702									
FSP 0.030 TPS 10.920 TL 2.000 MCG 0.000																			
MIZZEN RIG AND SAILS										PROPELLER									
N/A										Installation Shaft exposed PRD 0.510									
										Type Folding 2 blades PBW 0.147									
										Twin Screw No PIPA 0.0087									
										PSA 13.600 PHL 0.160 ST3 0.152 ESL 1.355									
										PSD 0.055 ST1 0.040 ST4 0.070									
										PHD 0.090 ST2 0.118 ST5 0.250									
COMMENTS										MOVEABLE BALLAST									
Maciej Marczewski										Keel Angle									
boat captain										List Angle 7.4									
Mobile: 0048507083721																			
										BILGEBOARD									
										BS BT BA									
										BF BX									
										BC BY									
SAILS (Maximum Areas)																			
Mainsail						Area						Area (r)						Formula	
MHB MUW MTW MHW MQW						199.64 204.81						P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)							
0.000 3.60 4.60 6.52 0.00																			
Symmetric																			
Not Available																			
Asymmetric																			
SLU SLE SL SHW SFL						430.69						AS · (SFL + 4·SHW) / 6							
30.94 27.13 29.04 18.20 16.20																			
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																			
1.39 2.67 4.97 9.33 28.86 139.61 Headsail																			





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2017 Certificate Appendix Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1461922		3.60	4.60	6.52		199.64					

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1461926		1.39	2.67	4.97		9.33	28.86	99%	139.61							Headsail

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1461933	30.94	27.13	29.04	18.20	16.20	430.69	asym					