

BOAT Name BIDOURIK Sail Nr FRA-25528	GPH 637.1	HULL Length Overall 9.600m Maximum Beam 3.448m Displacement 3,628kg Draft 1.979m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.181% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class JPK 9.60 Designer VALER Builder JPK COMPOSITES Series 02/2003 Age 02/2004 Age Allowance 0.487% Offset File JPK960.off - 04/05/2011 23:54:20 Measurement by - 30/04/2011		IMSL 9.159m VCGD -0.222m Sink 15.82kg/mm RL 8.344m VCGM -0.027m WS 20.84m² LSM0 8.947m Displacement/Length ratio 5.0656



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	617.7			687.9		
Time on Time	0.9714			0.9813		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	732.3	564.0	499.7	944.8	690.2	599.1
Time on Time	0.9218	1.1969	1.3507	0.7144	0.9780	1.1267

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1092.5	900.1	787.7	731.0	712.1	704.9	697.1
52°	711.6	598.7	542.4	519.2	509.3	505.0	501.9
60°	671.5	571.0	528.1	507.5	495.4	489.7	486.4
75°	643.5	552.3	517.1	496.4	479.0	465.1	453.2
90°	649.9	545.7	507.2	491.4	474.0	454.2	424.2
110°	642.2	537.3	498.4	469.6	445.0	430.7	406.5
120°	660.9	547.2	503.6	473.3	443.0	415.9	383.2
135°	730.1	592.0	525.5	493.5	464.1	434.5	375.0
150°	862.3	684.9	580.4	523.7	494.3	467.3	413.2
Run VMG	995.7	790.8	669.0	592.6	538.8	505.4	453.8

Certificate
Number **000728**
ORC Ref **GRE01016306**
Issued On **11/09/2019**
VPP Ver. **2019 1.01**
Valid until **28/02/2020**

Crew Weight
Default **587kg**
Maximum **555kg**
Minimum* **416kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **674.5 0.8895**
Non Spin OSN **652.4 0.9197**

Selected Courses							
Windward / Leeward	1044.1	845.5	728.3	661.8	625.5	605.1	575.5
Circular Random	879.3	709.3	618.1	565.0	532.0	509.8	479.6
Coastal / Long Distance	1039.3	793.8	658.9	583.0	543.0	510.9	458.7
Non Spinnaker	946.4	756.6	653.2	592.4	554.7	529.9	498.2

Sails Limitations
Headsails **5** | Spinnakers **3**

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	42.9°	41.3°	40.5°	38.6°	37.8°	37.6°	37.8°
Beat VMG	3.30	4.00	4.57	4.92	5.06	5.11	5.16
52°	5.06	6.01	6.64	6.93	7.07	7.13	7.17
60°	5.36	6.30	6.82	7.09	7.27	7.35	7.40
75°	5.59	6.52	6.96	7.25	7.51	7.74	7.94
90°	5.54	6.60	7.10	7.33	7.59	7.93	8.49
110°	5.61	6.70	7.22	7.67	8.09	8.36	8.86
120°	5.45	6.58	7.15	7.61	8.13	8.66	9.40
135°	4.93	6.08	6.85	7.29	7.76	8.29	9.60
150°	4.17	5.26	6.20	6.87	7.28	7.70	8.71
Run VMG	3.62	4.55	5.38	6.07	6.68	7.12	7.93
Gybe Angles	145.0°	149.1°	151.4°	158.7°	180.0°	180.0°	180.0°

Class Division Length
CDL = **8.752**

Storm Sails Areas
Heavy Weather Jib **20.34**
Storm Jib (JL=7.98) **7.53**
Storm Trysail **9.54**

Owner

BOAT	
Name BIDOURIK	Sail Nr FRA-25528
File F25528	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date 08/04/2017				SG 1.0285	
FFM	1.135	FF	1.134	SFFP	0.500
FAM	0.828	FA	0.828	SAFP	9.559
W1	61.5	PD1	578.0	WD	9.970
W2	61.5	PD2	578.5	GSA	1.0
W3	61.5	PD3	581.1	RSA	1.0
W4	61.5	PD4	581.5	PLM	9000.0
LCF from stem on CL / on sheer				5.463 / 5.711	
Maximum beam station from stem				6.718	
RM Measured				83.3kg-m	
RM Default				76.9kg-m	
Limit of positive stability / Stab.Index				115.8° / 110.7	
Freeboard at mast at 3.550				0.997	



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RIG					
Forestay Tension	Aft	Spreaders		2	
Inner Stay	None Fitted	Runners		0	
Carbon Mast	No	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	11.920	E	4.570	MDT1	0.121
IG	12.220	J	3.550	MDL1	0.165
ISP	13.370	SFJ	0.000	MDT2	0.115
BAS	1.381	SPL	3.900	MDL2	0.128
FSP	0.026	TPS		MWT	0.132
				TL	0.760
				MW	0.165
				GO	0.180
				BD	0.132
				MCG	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Strut	PRD	0.380
Type	Folding 2 blades	PBW	0.100
Twin Screw	No	PIPA	0.0033
ST1	0.048	ST3	0.170
ST2	0.170	ST4	0.098
		ST5	0.330
		EDL	2.026

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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	
	0.170	0.93	1.68	2.88	3.80	31.98	32.70	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	75.00		SL · (SFL + 4·SHW) / 6	
	12.81	12.81	12.81	7.11	6.69				
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
0.16	0.71	1.20	2.07	3.01	3.94	11.81	24.51	Y		14/04/2018	Carbon	LIGHT
0.15	0.70	1.19	2.03	2.96	3.94	11.79	24.19	Y		18/04/2018	Carbon	MEDIUM
0.10	0.57	1.08	1.94	2.94	3.86	11.98	23.69	Y		11/04/2011	Kevlar	LIGHT
0.07	0.57	1.09	1.95	2.93	3.87	11.86	23.47	Y		29/08/2010	Pentex	MEDIUM

MEASUREMENT INVENTORY				
Measurer	GRE-21			
Date	08/04/2017			
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	VOLVO PENTA	2020 (18)	
Id	Item	Weight Description		

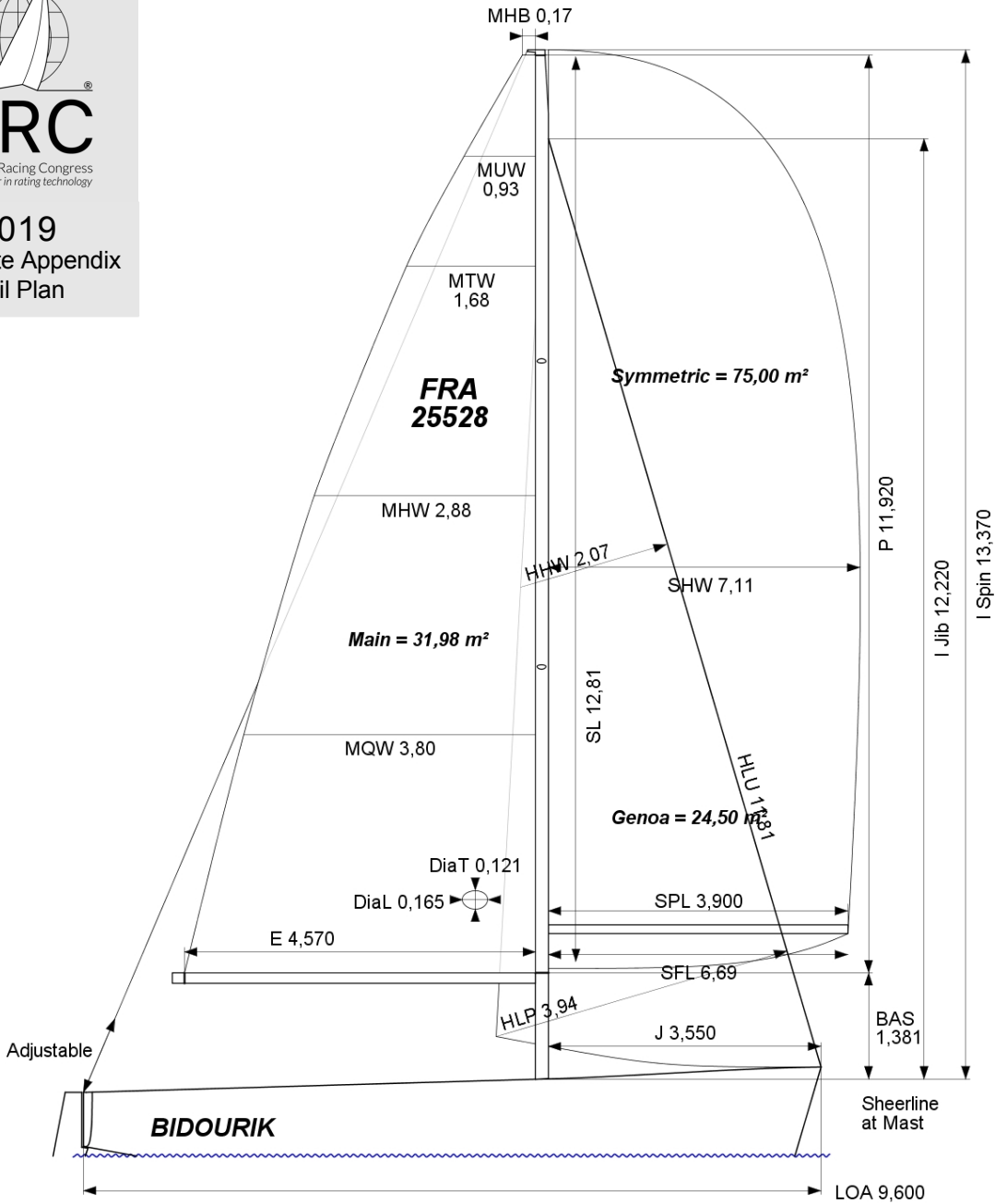
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
1	Tank	WATER	PVC HARD	80.0	2.50		0-0
2	Tank	FUEL	PVC HARD	30.0	7.90		3-0
Id	Item	Weight	Distance	VCG Description			
	Ballast						
1	Battery	5.90		2 x 80 Ah			
2	Battery	7.30		1 x 70 Ah			



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Sail Plan



SAILS INVENTORY

MAINSAIL (4)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M4	0.17	0.93	1.68	2.88	3.80	31.99		04/06/2013	NORTH	Pentex						
M3	0.17	0.93	1.68	2.88	3.80	31.99		29/08/2010	INCIDENCE	Dacron						
HEADSAILS (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
J11	0.16	0.71	1.20	2.07	3.01	3.94	11.81	111%	24.51	Y			14/04/2018	INCIDENCE	Carbon	LIGHT
J2I	0.15	0.70	1.19	2.03	2.96	3.94	11.79	111%	24.19	Y			18/04/2018	INCIDENCE	Carbon	MEDIUM
J1D4	0.10	0.57	1.08	1.94	2.94	3.86	11.98	109%	23.69	Y			11/04/2011	INCIDENCE	Kevlar	LIGHT
JM	0.07	0.57	1.09	1.95	2.93	3.87	11.86	109%	23.47	Y			29/08/2010	INCIDENCE	Pentex	MEDIUM
SYMMETRIC SPINNAKERS (4)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
RED	12.81	12.81	12.81	7.11	6.69	75.01		09/06/2016	NORTH	Nylon	S2 LIGHT					
BLUE1	12.64	12.64	12.64	6.80	6.48	70.96		28/08/2010	NORTH	Nylon	S2					
BLUE2	12.49	12.49	12.49	6.72	6.56	69.62		28/08/2010	INCIDENCE	Nylon	BLUE					
PINK	11.90	11.90	11.90	6.76	6.88	67.28		09/06/2016	NORTH	Nylon	S3					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				