

BOAT Name Munjek F Sail Nr CRO 2356	GPH 561.1	HULL Length Overall 10.320m Maximum Beam 3.008m Displacement 2,756kg Draft 2.529m IMS Reg. Division Performance Dynamic Allowance 0.001% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension IMSL 10.054m VCGD -0.243m Sink 15.41kg/mm RL 9.463m VCGM -0.246m WS 20.18m² LSM0 9.686m Displacement/Length ratio 3.0328
GENERAL Class Archambault M34 Designer Joubert / Nivel Builder Archambault Series 10/2010, CIN FRARC34007K011 Age 02/2011 Age Allowance 0.292% Offset File M34.OFF - 02/09/2011 14:02:52 Measurement by - 29/03/2019		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	548.0			616.2		
Time on Time	1.0949			1.0954		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	625.8	503.6	445.3	805.2	623.0	540.9
Time on Time	1.0787	1.3403	1.5159	0.8383	1.0834	1.2479

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	916.3	754.1	703.6	686.4	673.6	662.4	667.5
52°	603.1	512.2	491.6	484.0	480.0	472.4	470.3
60°	569.7	496.2	476.4	468.1	463.6	456.3	449.5
75°	544.8	485.8	457.7	441.2	432.1	427.1	410.6
90°	549.5	486.8	454.2	423.2	403.3	393.0	382.8
110°	540.9	472.9	447.1	424.1	403.5	380.8	336.7
120°	554.9	475.4	433.8	407.9	390.6	366.7	326.7
135°	627.6	503.0	456.0	410.3	366.4	334.6	296.1
150°	749.8	592.9	506.7	460.7	422.3	379.3	296.9
Run VMG	865.8	684.6	585.1	532.6	487.7	438.0	342.8

Certificate
Number **023/19**
ORC Ref **CRO00090126**
Issued On **03/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **658kg**
Maximum **600kg**
Minimum* **450kg**
**when applied by the NoR and SI*
Non Manual Pwr

Special Scoring

ToD	ToT
Non Spin GPH 603.3	0.9945
Non Spin OSN 589.3	1.0181

Selected Courses							
Windward / Leeward	891.1	719.3	644.4	609.5	580.6	550.2	505.2
Circular Random	759.5	619.3	545.7	502.9	474.9	453.9	421.6
Coastal / Long Distance	888.6	678.0	582.9	528.6	492.6	456.7	401.3
Non Spinnaker	835.9	673.0	585.3	533.7	500.8	478.0	447.1

Sails Limitations

Headsails	Spinnakers
5	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	42.3°	40.8°	38.9°	38.2°	37.8°	38.1°	39.0°
Beat VMG	3.93	4.77	5.12	5.24	5.34	5.43	5.39
52°	5.97	7.03	7.32	7.44	7.50	7.62	7.65
60°	6.32	7.26	7.56	7.69	7.77	7.89	8.01
75°	6.61	7.41	7.87	8.16	8.33	8.43	8.77
90°	6.55	7.40	7.93	8.51	8.93	9.16	9.40
110°	6.66	7.61	8.05	8.49	8.92	9.45	10.69
120°	6.49	7.57	8.30	8.83	9.22	9.82	11.02
135°	5.74	7.16	7.89	8.77	9.83	10.76	12.16
150°	4.80	6.07	7.10	7.81	8.52	9.49	12.13
Run VMG	4.16	5.26	6.15	6.76	7.38	8.22	10.50
Gybe Angles	142.4°	144.3°	149.8°	151.0°	147.4°	144.9°	144.7°

Class Division Length
CDL = **9.759**

Storm Sails Areas
Heavy Weather Jib **23.98**
Storm Jib (JL=8.67) **8.88**
Storm Trysail **11.54**

Owner

BOAT	
Name Munjek F File CRO2356	Sail Nr CRO 2356 Data in meters/kilograms

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 13.700	E 4.810 MDT1 0.095 MW 0.175
IG 13.260	J 4.020 MDL1 0.185 GO 0.195
ISP 15.290	SFJ 0.070 MDT2 0.095 BD 0.215
BAS 1.310	SPL 0.130 MDL2 0.130 MWT 104.50
FSP	TPS 5.650 TL 1.650 MCG 5.240

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 29/03/2019		SG 1.0253	
FFM 1.309	FF 1.308	SFFP 0.514	
FAM 0.914	FA 0.917	SAFP 10.284	
W1 60.0	PD1 659.1	WD 10.180	
W2 60.0	PD2 654.3	GSA 1.0	
W3 60.0	PD3 658.8	RSA 1.0	
W4 60.0	PD4 652.5	PLM 9000.0	
LCF from stem on CL / on sheer		5.777 / 5.952	
Maximum beam station from stem		8.569	
RM Measured		73.3kg-m	
RM Default		78.5kg-m	
Limit of positive stability / Stab.Index		131.0° / 127.5	
Freeboard at mast at 4.090		1.069	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.405		
Type Folding 2 blades	PBW 0.105		
Twin Screw No	PIPA 0.0039		
ST1 0.065	ST3 0.180	ST5 0.324	
ST2 0.180	ST4 0.110	EDL 1.765	

Certificate	
Number 023/19	
ORC Ref CRO00090126	
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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.220	1.23	2.06	3.18	4.05	40.59	41.62	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL				
	16.86	14.57	15.71	9.42	9.37	123.23		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	Fly	Meas.Date	Material	Comment
0.07	0.69	1.30	2.32	3.31	4.22	12.75	28.74	Y		10/04/2019	Carbon	J 1
0.08	0.48	0.91	1.88	2.97	4.12	12.53	24.72	Y		10/04/2019	Carbon	J 2
0.10	0.53	1.02	1.95	2.86	3.77	10.02	19.37	Y		10/04/2019	Carbon	J 3
0.09	0.38	0.70	1.41	2.21	3.06	12.75	18.85	Y		10/04/2019	Carbon	J 4

MEASUREMENT INVENTORY				
Measurer CROAK6				
Date 29/03/2019				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	Volvo	18 HP	
Id	Item	Weight Description		

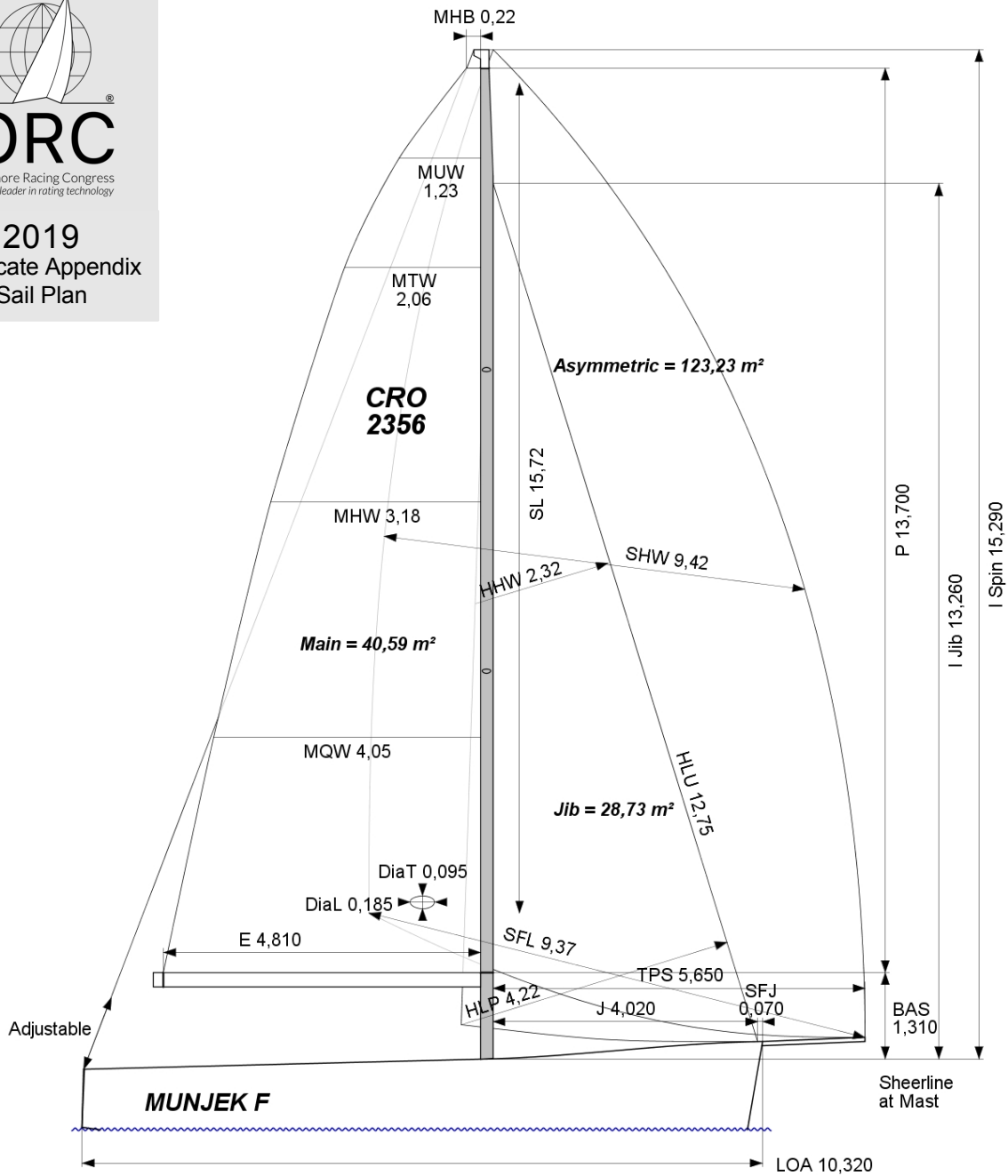
MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description	
1	Tank Fuel		PVC	45.0	7.38			22-0 Centerline	
Id	Item	Weight	Distance	VCG Description					
1	Ballast	7.0	3.80	4 triangle pieaces P/S aprox weight					
1	Battery	5.90	0.00	110AH EXCIDE					
2	Battery	5.70		70AH EXCIDE					



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.22	1.23	2.06	3.18	4.05	40.59		10/04/2019	Dustom sails	Carbon	

HEADSAILS (4)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.07	0.69	1.30	2.32	3.31	4.22	12.75	105%	28.74	Y			10/04/2019	Dustom sails	Carbon	J 1
4	0.08	0.48	0.91	1.88	2.97	4.12	12.53	102%	24.72	Y			10/04/2019	Dustom Sails	Carbon	J 2
3	0.10	0.53	1.02	1.95	2.86	3.77	10.02	94%	19.37	Y			10/04/2019	Dustom sails	Carbon	J 3
2	0.09	0.38	0.70	1.41	2.21	3.06	12.75	76%	18.85	Y			10/04/2019	Dustom sails	Carbon	J 4

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (4)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
2	16.86	14.57	15.71	9.42	9.37	123.24	asym		10/04/2019	Dustom sails	Nylon	
1	16.70	14.50	15.60	9.42	9.33	122.23	asym		10/04/2019	Dustom sails	Nylon	
4	15.54	14.62	15.08	5.70	7.50	76.16	asym		10/04/2019	Dustom sails	Spectra	C 0
3	14.59	12.78	13.68	5.82	7.66	70.57	asym		01/04/2019	Dustom sails	Nylon	