

BOAT
Name MELGES 32 Sail Nr M32-

GPH
534.6

HULL
Length Overall 9.680m
Maximum Beam 2.944m
Displacement 1,722kg
Draft 2.163m
IMS Reg. Division Performance
Dynamic Allowance 0.001%
Fwd Accommodation No
Hull Construction Cored
Carbon Rudder Yes
Crew Arm Extension
IMSL 9.038m VCGD -0.402m Sink 12.24kg/mm
RL 9.852m VCGM -0.409m WS 15.86m²
LSM0 8.590m Displacement/Length ratio 2.7168



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2019 (Test)
ORC International
One Design Certificate

Rating Office

GENERAL
Class MELGES 32 OD
Designer REICHEL/PUGH
Builder MELGES
Series 03/2005
Age
Age Allowance 0.455%
Offset File melg32.od - 14/01/2019 15:51:16
Measurement by CONTI-WILLIAMS - 25/04/2014

SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	523.3	587.4
Time on Time	1.1466	1.1492
Triple Number	Low Medium High	Low Medium High
Time on Distance	593.4 483.9 417.9	754.9 600.4 508.2
Time on Time	1.1376 1.3949 1.6153	0.8941 1.1243 1.3282

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	851.9	722.1	686.9	672.7	659.2	652.7	657.5
52°	561.0	506.4	490.7	481.5	473.2	462.0	458.1
60°	536.4	490.8	470.3	458.4	451.2	436.9	429.4
75°	520.7	473.8	439.0	422.8	412.7	405.4	383.7
90°	520.7	474.4	426.9	394.8	378.3	367.3	350.0
110°	519.5	465.0	431.3	400.9	372.2	334.7	300.4
120°	528.4	460.8	417.3	390.7	361.9	331.2	287.1
135°	580.4	489.6	430.2	373.1	336.0	307.5	265.0
150°	693.5	558.7	488.3	437.5	382.2	329.9	247.4
Run VMG	800.8	645.1	570.2	505.1	441.3	381.0	285.6

Certificate
Number 176M32
ORC Ref N/A
Issued On 15/01/2019
VPP Ver. 2019 1.01
Invalid for Racing

Crew Weight
Default 554kg
Maximum 629kg
Minimum* 472kg
<i>*when applied by the NoR and SI</i>
Non Manual Pwr No

Special Scoring
ToD ToT
Non Spin GPH 576.7 1.0404
Non Spin OSN 565.3 1.0614

Selected Courses							
Windward / Leeward	826.3	683.6	628.5	588.9	550.3	516.8	471.5
Circular Random	718.0	589.9	521.4	479.4	450.0	427.4	393.9
Coastal / Long Distance	823.8	646.1	566.8	510.1	466.9	426.8	368.1
Non Spinnaker	788.2	640.6	561.0	512.8	480.6	456.9	422.1

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	42.4°	38.8°	37.3°	36.7°	36.1°	35.9°	37.2°
Beat VMG	4.23	4.99	5.24	5.35	5.46	5.52	5.48
52°	6.42	7.11	7.34	7.48	7.61	7.79	7.86
60°	6.71	7.34	7.66	7.85	7.98	8.24	8.38
75°	6.91	7.60	8.20	8.51	8.72	8.88	9.38
90°	6.91	7.59	8.43	9.12	9.52	9.80	10.29
110°	6.93	7.74	8.35	8.98	9.67	10.75	11.98
120°	6.81	7.81	8.63	9.22	9.95	10.87	12.54
135°	6.20	7.35	8.37	9.65	10.71	11.71	13.58
150°	5.19	6.44	7.37	8.23	9.42	10.91	14.55
Run VMG	4.50	5.58	6.31	7.13	8.16	9.45	12.60
Gybe Angles	142.2°	147.2°	152.8°	148.5°	143.1°	142.8°	148.1°

Class Division Length
CDL = 9.446

Storm Sails Areas
Heavy Weather Jib 21.30
Storm Jib (JL=8.17) 7.89
Storm Trysail 11.09

Owner
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

BOAT	
Name MELGES 32	Sail Nr M32-
File melg32	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Enter VCG directly			
Flotation date 01/01/2013		SG 1.0270	
VCGDe -0.402			
FFM 0.963	FF 0.963	SFFP 0.457	
FAM 0.701	FA 0.701	SAFP 9.490	
LCF from stem on CL / on sheer		5.175 / 5.342	
Maximum beam station from stem		6.272	
RM Measured		56.8kg-m	
RM Default		59.7kg-m	
Limit of positive stability / Stab.Index		127.2° / 120.5	
Freeboard at mast at 3.430		0.915	



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2019
IMS Measurement
Certificate

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 Yes	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 13.426	E 4.720	MDT1 0.092	MW 0.170
IG 12.426	J 3.290	MDL1 0.170	GO 0.205
ISP 14.722	SFJ 0.140	MDT2 0.083	BD 0.153
BAS 1.340	SPL 0.000	MDL2 0.148	MWT 70.00
FSP 0.060	TPS 5.900	TL 1.825	MCG 5.050

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

Certificate

Number **176M32**
ORC Ref **N/A**
Issued On **15/01/2019**
VPP Ver. **2019 1.01**

Invalid for Racing

COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.210	1.27	2.12	3.40	4.27	41.31	42.62	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				
	17.00	14.57	15.79	9.50	9.70	125.49		AS · (SFL + 4·SHW) / 6	

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HBB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.08	0.58	1.04	1.94	2.77	3.53	12.55	23.58	N	N	05/03/2013	Unknow	CLASS RULE

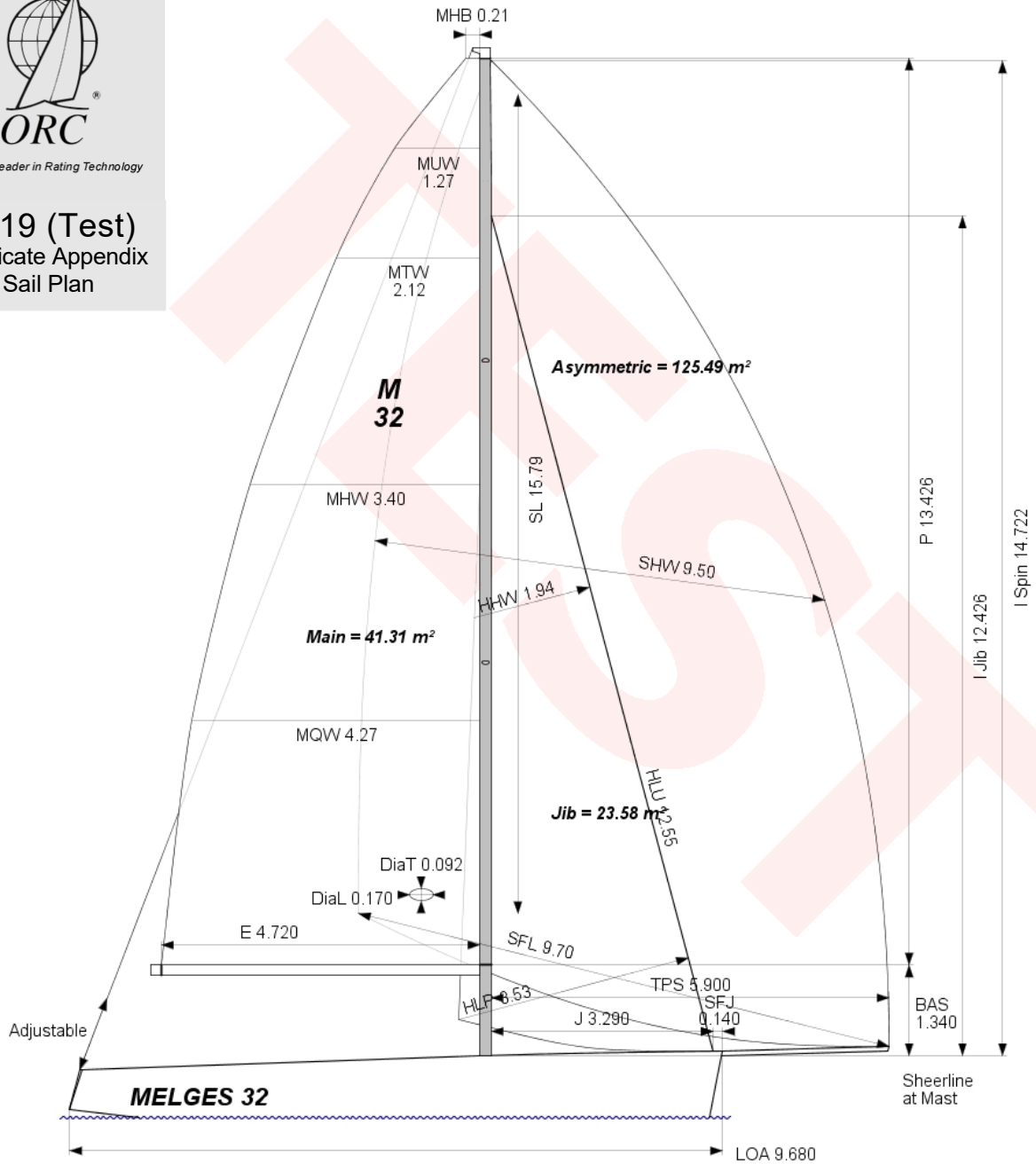
MEASUREMENT INVENTORY				
Measurer				
Date 01/01/2013				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
B1	Battery	15.0	6.73	0.00 Battery
B2	Battery	15.0	7.18	0.00 Battery



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	0.21	1.27	2.12	3.40	4.27	41.32					CLASS RULE					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.08	0.58	1.04	1.94	2.77	3.53	12.55	107%	23.58	N	N	C.R	05/03/2013		Unknown	CLASS RULE
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
CLASSMAX	17.00	14.57	15.79	9.50	9.70	125.50	asym				Unknown					
ORC	16.00	13.57	14.79	7.50	8.00	93.64	asym					* Copied from legacy *				