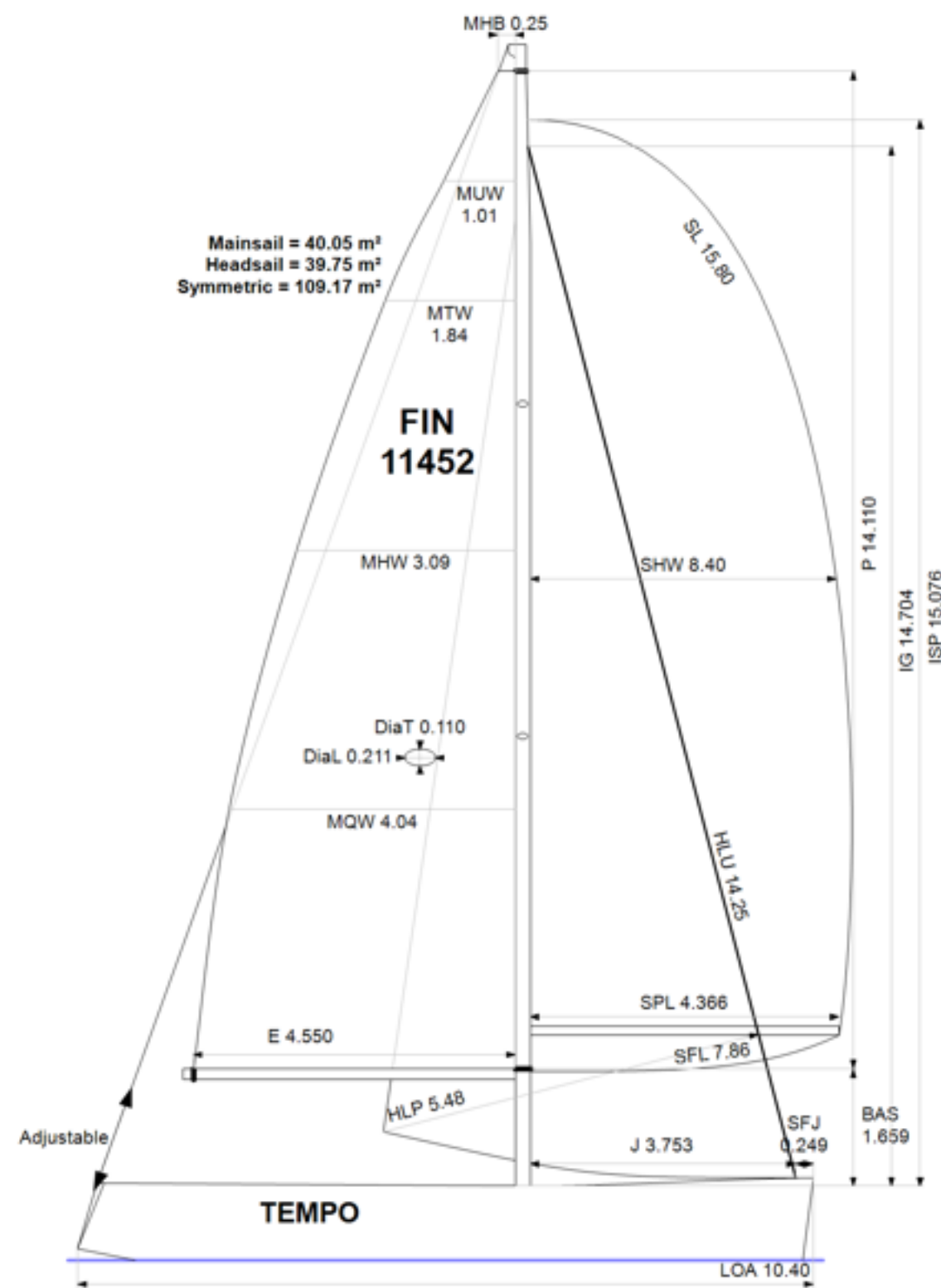




Club Certificate 2022

Boat Tempo FIN11452

Avomeripurjehtijat ry  
c/o Mainoskauppa Oy  
Melkonkatu 16 B  
00210 HELSINKI



APH: 549.8 CDL: 9.243  
GPH: 615.3 CertNo:

BOAT	
Class	Arcona 340
Designer	Stefan Ovilberg
Builder	Arcona Yacht
Age date	05/2009
Series date	02/2009
Offset file	Arc340NS.off
Data file	FIN11452

HULL	
Length Overall	10.400 m
Maximum Beam	3.476 m
Draft	2.027 m
Displacement	5,562 kg
DLR	6.0311
IMS Division	Cruiser/Racer
Dynamic Allowance	0.009%
Age Allowance	0.422%

PROPELLER	
Installation	Strut
Type	Folding 3 blades
Diameter	0.411m

CREW	
Maximum weight	662 kg
Minimum weight	497 kg * when applied
Non Manual Power	No
Crew Arm Extension	

SAIL AREAS (m²)	
Mainsail	Measured 40.05 Rated 40.89
Headsail Luffed	39.75 39.75
Headsail Flying	
Symmetric	109.17 109.17
Asymmetric	

STORM SAIL AREAS (m²)	
Trysail	11.24
Storm Jib	10.90
Heavy Weather Jib	29.41

SAIL LIMITS	
Headsails	5
Spinnakers	4

STABILITY	
Righting Moment	149.6 kg-m
Stability Index	N/A

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.

Rated boat velocities in knots							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.9°	41.7°	40.6°	39.0°	38.5°	38.2°	38.2°
Beat VMG	3.52	4.23	4.79	5.08	5.19	5.25	5.29
52°	5.37	6.34	6.93	7.18	7.27	7.32	7.35
60°	5.67	6.61	7.09	7.34	7.45	7.51	7.56
75°	5.91	6.79	7.21	7.49	7.71	7.85	7.98
90°	5.84	6.77	7.28	7.52	7.80	8.08	8.48
110°	5.79	6.90	7.42	7.81	8.13	8.36	8.76
120°	5.65	6.78	7.35	7.78	8.23	8.66	9.19
135°	5.14	6.30	7.08	7.51	7.93	8.40	9.46
150°	4.33	5.42	6.41	7.10	7.51	7.90	8.79
Run VMG	3.75	4.70	5.55	6.29	6.86	7.31	8.05
Gybe Angles	140.8°	149.6°	150.5°	158.6°	171.8°	177.2°	177.2°

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Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1021.4	850.8	751.2	709.3	693.3	685.8	680.0
52°	671.0	567.8	519.6	501.6	495.3	492.0	489.6
60°	634.9	544.9	507.5	490.7	483.1	479.1	476.1
75°	608.7	530.4	499.2	480.8	467.1	458.6	451.1
90°	616.0	531.5	494.3	478.8	461.5	445.4	424.4
110°	621.7	522.0	485.0	460.7	442.9	430.6	410.9
120°	637.1	530.7	489.5	463.0	437.4	415.6	391.5
135°	700.4	571.8	508.8	479.4	453.7	428.5	380.4
150°	831.8	663.9	561.7	506.8	479.5	455.6	409.6
Run VMG	960.5	766.6	648.2	572.3	524.5	492.5	447.0
Selected Courses							
Windward / Leeward	991.0	808.7	699.7	640.8	608.9	589.2	563.5
All purpose	763.7	634.4	566.3	531.4	510.8	496.3	475.1

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	671.5	0.8936
All purpose	549.8	1.0912

Custom scoring options for Finland

Single Number	Time On Distance	Time On Time
FinRating (Coastal/Long Distance)	598.0	1.0033
Triple Number Coastal/Long Distance Low	699.1	0.8583
Triple Number Coastal/Long Distance Medium	546.4	1.0980
Triple Number Coastal/Long Distance High	492.0	1.2196
Triple Number Windward/Leeward Low	899.8	0.6668
Triple Number Windward/Leeward Medium	666.4	0.9003
Triple Number Windward/Leeward High	584.5	1.0265

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	987.9	760.5	634.1	565.6	529.6	500.5	455.5

AUS AUT BRA BUL CAN CYP DEN ESP EST FIN FRA GER GRE HUN  
ISR ITA JPN KOR LTU NED NOR POR RSA RUS SLO SUI SWE UKR  
USA

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Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Arcona 340	LOA	10.400	VCGD	0.100
Measurement		Max. Beam	3.476	VCGM	0.054
HIN		Draft	2.027	RM Measured (kg-m)	149.6
Plan review		Displacement	5,562	RM Default (kg-m)	145.5
Hull construction	Cored	Wetted area	25.30	Limit of positive stability(°)	N/A
Aramid Hull Core	No	IMS L	9.622	Stability Index	N/A
Carbon Rudder	No	LSMO	9.733		
Light stanchions	No	Acc. length	10.400		
Trim tab	No	Sink (kg/mm)	19.76		

PROPELLER

Propeller Type	Folding 3 blades
Installation	Strut
PRD	0.411
EDL	2.500
ST3	0.185
Twin screw	No
PBW	0.123
ST1	0.040
ST4	0.110
Hydro generator	No
PIPA	0.0034
ST2	0.185
ST5	0.260

RIG

Forestay tension	Aft	P	14.110	E	4.550
Inner stay	None Fitted	IG	14.704	J	3.753
Carbon mast	No	ISP	15.076	BAS	1.659
Headsail furler	No	MDT1	0.110	FSD	0.037
Mainsail furler	No	MDL1	0.211	SFJ	0.249
Articulated bowsprit	No	MDT2	0.108	SPL	4.366
Non-circular rigging	No	MDL2	0.150	WPL	
Fiber rigging	No	TL	2.470	TFS	0.000
Runners/Checkstays	0	MW	0.192	BD	0.150
Spreaders	2	GO	0.206	MWT	176.10
				MCG	5.100

FLOTATION AND STABILITY

Calculation method	VCG entered directly	SFFP	0.220	SAFP	10.028
Flotation Date	11/04/2019	FFM		FAM	
Measurer		FF	1.158	FA	1.091
Comment		LCFcl	5.665	LCFsh	5.910
		SG		HBI	1.047

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MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Meas.Date	Maker	Material	Comment
1	0.25	1.01	1.84	3.09	4.04	40.05				
1	0.14	1.01	1.84	3.09	4.04	39.95				

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Meas.Date	Maker	Material	Comment
1						5.48	14.25	No	No		39.75				
1	0.06	0.62	1.24	2.45	3.97	5.48	14.25	No	No		37.30				

SYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Area	Meas.Date	Maker	Material	Comment
1	15.80	15.80	15.80	8.40		109.17				
2	15.80	15.80	15.80	8.40	7.78	108.97				Unknown
1	14.40	14.40	14.40	6.80		84.14				

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