

APH: **525.5**

CDL: **9.166**

GPH: **584.9**

CertNo: **None**

BOAT

Class **Juwel 34**
Designer **P. Broeker**
Builder **Interboats**
Age date **01/1996**
Series date **04/1992**
Offset file **JUWEL_NED9118.off**
Data file

HULL

Length Overall **10.060 m**
Maximum Beam **2.528 m**
Draft **2.074 m**
Displacement **2,483 kg**
DLR **4.3488**
IMS Division **Performance**
Dynamic Allowance **0.000%**
Age Allowance **0.487%**

PROPELLER

Installation **No Propeller**
Type **N/A**
Diameter **N/A**

CREW

Maximum weight **527 kg**
Minimum weight **395 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	36.24	36.89
Headsail Luffed	19.28	19.28
Headsail Flying		
Symmetric	79.20	79.54
Asymmetric		

STORM SAIL AREAS (m²)

Trysail **10.68**
Storm Jib **7.13**
Heavy Weather Jib **19.25**

SAIL LIMITS

Headsails **5**
Spinnakers **4**

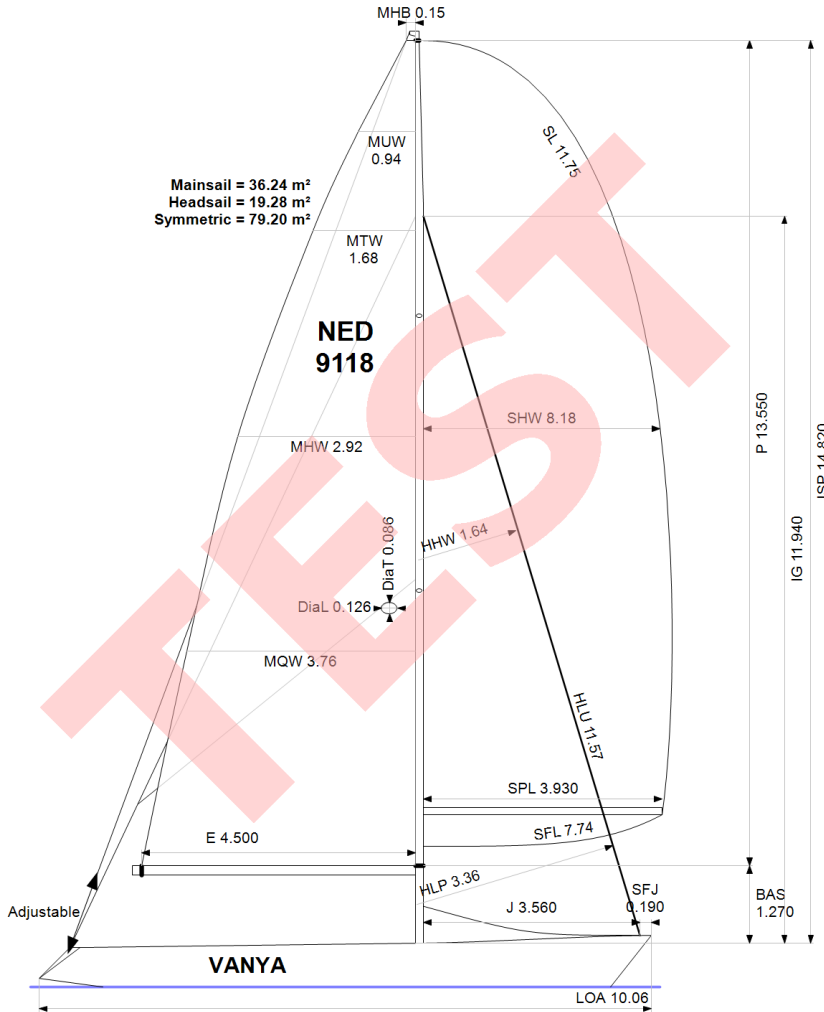
STABILITY

Righting Moment **N/A**
Stability Index **N/A**

COMMENTS

BB motor aan spiegel bij meting

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	41.8°	39.0°	37.0°	36.3°	35.8°	35.7°	35.8°
Beat VMG	3.92	4.73	5.08	5.24	5.34	5.40	5.44
52°	5.87	6.77	7.08	7.23	7.33	7.41	7.50
60°	6.13	6.93	7.27	7.45	7.57	7.67	7.80
75°	6.29	7.03	7.46	7.77	7.96	8.12	8.34
90°	6.15	6.98	7.47	7.89	8.27	8.58	9.01
110°	6.23	7.17	7.68	8.02	8.35	8.63	9.61
120°	6.04	7.09	7.71	8.27	8.72	9.14	9.89
135°	5.42	6.64	7.36	7.99	8.68	9.52	11.48
150°	4.54	5.73	6.70	7.34	7.95	8.62	10.54
Run VMG	3.94	4.96	5.82	6.49	7.07	7.60	9.12
Gybe Angles	142.4°	146.0°	152.9°	159.5°	173.6°	171.8°	142.9°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	918.2	761.2	709.0	686.7	674.3	666.4	662.0
52°	612.8	532.0	508.7	498.0	490.9	485.6	479.8
60°	586.8	519.4	495.3	483.5	475.3	469.2	461.6
75°	572.7	512.1	482.6	463.6	452.1	443.3	431.6
90°	585.1	515.5	482.2	456.0	435.2	419.6	399.7
110°	578.3	502.4	468.7	448.7	431.3	417.2	374.8
120°	596.0	507.9	467.1	435.5	413.1	393.7	364.1
135°	664.7	542.2	489.4	450.6	414.6	378.1	313.5
150°	792.2	628.3	537.2	490.3	452.7	417.6	341.7
Run VMG	914.7	725.5	618.2	554.6	509.4	474.0	394.6
Selected Courses							
Windward / Leeward	916.5	743.4	663.6	620.6	591.8	570.2	528.3
All purpose	709.5	593.7	542.9	513.5	492.3	474.7	442.4

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	640.9	0.9362
All purpose	525.5	1.1417

Custom scoring options for Netherlands

Scoring Option	Time On Time
Triple Number Coastal/Long Distance Low	0.9208
Triple Number Coastal/Long Distance Medium	1.1435
Triple Number Coastal/Long Distance High	1.2849
Triple Number Windward/Leeward Low	0.7230
Triple Number Windward/Leeward Medium	0.9405
Triple Number Windward/Leeward High	1.0717
Coastal/Long Distance	1.0552
Predominantly Upwind	1.0561
Predominantly Downwind	1.1366



Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Juwel 34	LOA	10.060	VCGD	-0.369
Measurement	14/04/2021	Max. Beam	2.528	VCGM	-0.320
HIN		Draft	2.074	RM Rated (kg·m)	59.6
Plan review		Displacement	2,483	Limit of positive stability(°)	N/A
Hull construction	Solid	Wetted area	17.46	Stability Index	N/A
Carbon Rudder	No	IMS L	8.873		
Light stanchions	No	LSM0	8.296		
Trim tab	No	Acc. length	8.216		
		Sink (kg/mm)	12.80		

PROPELLER

Propeller Type	No Propeller
Hydro generator	No PIPA 0.0000

RIG

Forestay tension	Aft	P	13.550	E	4.500
Inner stay	None Fitted	IG	11.940	J	3.560
Carbon mast	No	ISP	14.820	BAS	1.270
Headsail furler	No	MDT1	0.086	FSD	Foil
Mainsail furler	No	MDL1	0.126	SFJ	0.190
Articulated bowsprit	No	MDT2		SPL	3.930
Non-circular rigging	No	MDL2		WPL	
Fiber rigging	No	TL	Taper	TPS	5.150
Runners/Checkstays	2	MW	0.000	BD	
Spreaders	2	GO		MWT	
Rotating mast	No			MCG	

FLOTATION AND STABILITY

Calculation method	RM estimated	SFFP	0.415	SAFP	9.390
Flotation Date	14/04/2021	FFM		FAM	
Measurer		FF	0.835	FA	0.643
Comment		LCFcl	5.543	LCFsh	5.680
		SG	1.0000	HBI	0.720

INVENTORY

OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG
	SaS	Deductible	Sailor Services	24	6.13	0.00
			<i>Total deductible</i>	24	6.13	0.00



MAINSAIL

<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
1	0.15	0.94	1.68	2.92	3.76	36.24		

HEADSAIL

<i>Id</i>	<i>HHB</i>	<i>HUW</i>	<i>HTW</i>	<i>HHW</i>	<i>HQW</i>	<i>HLP</i>	<i>HLU</i>	<i>Btn</i>	<i>Flying FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
2	0.04	0.43	0.82	1.64	2.50	3.36	11.57	Yes	No	19.28		

SYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
1	11.70	11.79	11.75	8.18	7.74	79.20		