

HPA : **593.2** CDL: **7,892**

GPH: **667.3** Cert No: **999.**

boat

Class **Hustler SJ 35**
Designate **S. Jones**
builder **Oyster Navy**
age date **05/1984**
Series date **05/1984**
file offset **K15070.BOF**
data file

HULL

Length Overall **10.520m**
Maximum Beam **3.502 m**
Draft **1,940m**
Displacement **3.806kg**
DLR **7.6750**
IMS Division
Dynamic Allowance **0.021%**
Age Allowance **0.487%**

PROPELLER

Installation **Shaft exposed**
Type **Folding 2 blades**
Diameter **0.350m**

CREW

Maximum weight **493kg**
Minimum weight **370 kg * when applied**
No Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	31.95	32.19
Headsail Luffed	28.30	28.30
Headsail Flying		
Symmetric	62.36	62.36
Asymmetric		

STORM SAIL AREAS (m²)

trysail **10.57**
Storm Jib **5.48**
Heavy Weather Jib **14.78**

SAIL LIMITS

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

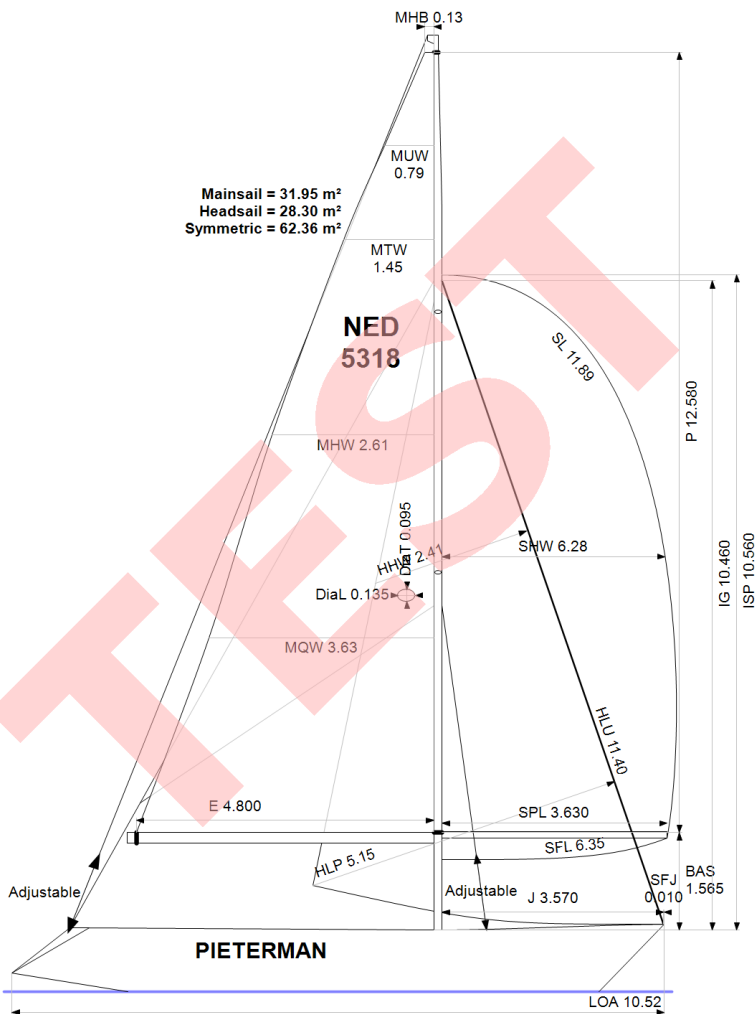
STABILITY

Righting Moment **77.5 kg m**
Stability Index **N / A**

COMMENTS

Main 8/5/95

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



Rated boat velocities in knots

Wind Velocity	6kt	8kt	10kt	12kt	14kt	16kt	20kt
Beat Angles	41.8°	41.8°	40.2°	39.0°	38.4°	38.2°	38.8°
Beat VMG	3.30	3.94	4.48	4.76	4.87	4.93	4.91
52°	4.95	5.91	6.47	6.72	6.84	6.92	6.97
60°	5.21	6.16	6.63	6.88	7.04	7.14	7.23
75°	5.40	6.32	6.75	7.04	7.28	7.47	7.66
90°	5.30	6.32	6.86	7.20	7.41	7.64	8.01
110°	5.21	6.34	6.90	7.31	7.70	8.01	8.40
120°	5.01	6.15	6.79	7.22	7.63	7.99	8.67
135°	4.46	5.49	6.44	6.92	7.32	7.72	8.47
150°	3.76	4.75	5.70	6.49	6.94	7.32	8.04
Run VMG	3.26	4.12	4.94	5.73	6.34	6.80	7.52
Gybe Angles	146.6°	152.3°	149.3°	158.3°	173.0°	179.0°	179.0°

Time Allowances in secs/NM							
Wind Velocity	6kt	8kt	10kt	12kt	14kt	16kt	20kt
Beat VMG	1092.0	913.3	803.2	756.4	738.5	729.6	732.5
52°	727.1	609.2	556.7	535.8	526.0	520.6	516.8
60°	690.7	584.9	543.1	523.3	511.1	504.1	497.9
75°	667.1	569.9	533.2	511.4	494.7	482.2	469.8
90°	679.0	570.0	525.0	500.2	485.8	471.1	449.6
110°	690.8	568.2	521.7	492.2	467.8	449.5	428.5
120°	718.7	585.6	530.0	498.9	472.0	450.4	415.1
135°	806.4	656.2	559.4	520.2	491.7	466.2	424.8
150°	956.6	757.8	631.4	554.3	519.1	492.1	447.8
Run VMG	1104.6	873.3	729.1	628.4	567.8	529.3	478.4
Selected Courses							
Windward/Leeward	1098.3	893.3	766.1	692.4	653.1	629.5	605.5
All purpose	846.0	696.2	614.0	570.2	545.6	528.6	508.0

Single Number Scoring Options		
Race	Time On Distance	Time On Time
Windward/Leeward	729.0	0.8230
All purpose	593.2	1.0115

Custom scoring options for Netherlands

Single Number	Time On Time
Triple Number Coastal/Long Distance Low	0.7782
Triple Number Coastal/Long Distance Medium	1.0184
Triple Number Coastal/Long Distance High	1.1426
Triple Number Windward/Leeward Low	0.6025
Triple Number Windward/Leeward Medium	0.8288
Triple Number Windward/Leeward High	0.9579
Coastal/Long Distance	0.9270
Predominantly Upwind	0.9377
Predominantly Downwind	0.9862

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Hustler SJ 35	LOA	10.520	VCGD	-0.023
Measurement	06/01/1994	Max. beam	3.502	VCGM	-0.011
HI		Draft	1,940	RM Measured (kg m)	77.5
Plan review		Displacement	3,806	RM Default (kg m)	77.5
building hull	Solid	Wetted area	19.62	Limit of positive stability (°)	N / A
Aramid Hull Core	No	IMS-L	7.989	Stability Index	N / A
Carbon Rudder	No	LSM0	7.914		
Light stanchions	No	Acc. length	10.520		
Trim tab	No	Sink (kg/mm)	13.61		

PROPELLER

Propeller Type	Folding 2 blades										
Installation	Shaft exposed	PRD	0.350	PSD	0.025	PSA	12.0°	ST1	0.020	ST4	0.040
twin screws	No	PBW	0.100	PHD	0.040	ESL	0.800	ST2	0.090	ST5	0.200
hydro-generator	No	PIPA	0.0020	PHL	0.060			ST3	0.090		

RIG

Forestay Voltage	aft	P	12.580	E	4,800
Innerstay	Adjustable	GI	10.460	J	3.570
Carbon mast	No	ISP	10.560	LOW	1.565
Headsail furler	No	MDT1	0.095	FSD	Foil
main sail furler	No	MDL1	0.135	SFJ	0.010
Articulated bowsprit	No	MDT2		SPL	3.630
Non-circular rigging	No	MDL2		WPL	
fiber rigging	No	TL	Type	GST	
Runners/Checkstays	2	MW		comics	
spreaders	2	GO		MWT	
				CWM	

FLOTATION AND STABILITY

Calculation method	Estimated VCG	SFFP	0.752	PBAS	9.280
Flotation Date	06/01/1994	FFM	1.070	FAM	1.020
Measure		FF	1.078	FA	1.031
How? 'Or' What		LCFcl	5.339	LCFsh	5.620
		SG	1.0000	HBI	0.997

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>Maker</i>	<i>Material</i>	<i>Comment</i>
M1	0.13	0.79	1.45	2.61	3.63	31.95			Dacron	

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</i>	<i>FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
G1	0.04	0.58	1.15	2.41	3.74	5.15	11.40	No	No		28.30			Dacron	
G2	0.03	0.45	0.84	1.65	2.50	3.32	11.30	Yes	No		18.84			Dacron	

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>Maker</i>	<i>Material</i>	<i>Comment</i>
S1	11.89	11.89	11.89	6.28	6.35	62.36			Nylon	