

BOAT
Name Yacht Name
Sail Nr JPN XXXX

GPH
602.6

HULL			
Length Overall	10.600 m		
Maximum Beam	3.254 m		
Displacement	4,527 kg		
Draft	2.22 m		
IMS Regulations Division	Cruiser/Racer		
Accommodation length C/R	10.57 m		
Dynamic Allowance	0.05%		
Forward Accommodation	Yes		
Hull Construction	Cored		
Carbon Rudder	No		
Trim Tab	No		
IMS L	9.63	VCGD	0.061
		VCGM	0.049

GENERAL
Class X-35 OD
Designer JEPPESEN
Builder X YACHTS
Series 09/2005
Age 09/2005
Age Allowance 0.20%
Offset File X35.OFF - 2006/05/29 11:52:00
Measurement by KALL - 04/05/2006



2008
ORC International
Certificate

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	602.6			672.1		
Time On Time	0.9956			1.0043		
Performance Line	PLT 0.814	PLD 87.1		PLT 1.208	PLD 405.9	
Triple Number	Low 0.9970	Medium 1.2622	High 1.4031	Low 0.7627	Medium 1.0210	High 1.1652

Rating Office
ORC Association Nippon
Japan
www.orcan.org
rating-office@orcan.org

ORC Association Nippon

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	997.3	812.7	738.5	705.9	687.4	677.3	674.8	
52°	648.3	547.6	509.2	494.6	486.4	481.9	478.6	
60°	604.3	527.6	490.3	477.8	470.5	466.1	461.7	
75°	577.5	510.9	478.5	457.0	448.4	442.6	435.1	
90°	560.1	491.1	464.0	452.7	438.3	423.2	412.7	
110°	568.9	503.2	466.9	437.3	421.2	410.8	392.2	
120°	598.6	520.8	480.1	450.9	421.9	397.7	374.2	
135°	701.2	567.4	509.9	475.5	449.8	425.1	368.6	
150°	839.6	664.4	564.5	511.8	478.5	453.8	408.4	
Run VMG	969.5	767.2	648.9	576.3	525.8	491.0	443.6	
Selected Courses								
Windward / Leeward	1003.9	806.7	706.2	650.3	615.0	591.8	565.7	
Circular Random	820.7	666.5	585.2	538.7	510.3	491.6	467.4	
Ocean for PCS	930.9	733.4	622.6	554.0	508.3	475.5	429.4	
Non Spinnaker	899.2	720.7	624.4	568.2	533.7	511.3	484.1	

Certificate
Number TEST_5
ORC Ref N/A
Issued On 2008/02/09
VPP Ver. 0.96
Valid until 2009/03/31

Crew Weight
Declared 645 kg
Default* 645 kg
Double Handed ToD 600.0
Double Handed ToT 1.1000

Sails Limitations
Genoas 0
Jibs 4
Spinnakers 3
Spinnaker configuration

Storm Sails Areas
Heavy Weather Jib 28.66
Storm Jib 10.61
Storm Jib JL 9.47
Storm Trysail 12.22

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	43.1°	42.5°	39.1°	37.7°	37.1°	36.8°	37.0°
Beat VMG	3.61	4.43	4.87	5.10	5.24	5.32	5.33
52°	5.55	6.57	7.07	7.28	7.40	7.47	7.52
60°	5.96	6.82	7.34	7.53	7.65	7.72	7.80
75°	6.23	7.05	7.52	7.88	8.03	8.13	8.27
90°	6.43	7.33	7.76	7.95	8.21	8.51	8.72
110°	6.33	7.15	7.71	8.23	8.55	8.76	9.18
120°	6.01	6.91	7.50	7.98	8.53	9.05	9.62
135°	5.13	6.34	7.06	7.57	8.00	8.47	9.77
150°	4.29	5.42	6.38	7.03	7.52	7.93	8.81
Run VMG	3.71	4.69	5.55	6.25	6.85	7.33	8.11
Gybe Angles	142.5°	143.5°	153.9°	164.1°	169.4°	173.0°	173.5°

Owner
Owner Name
Address1
Address2
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature



World Leader in Rating Technology

2008 IMS Measurement Certificate

SAILS

JL	HB	0.21
LPG	MSW	19.6
JR	MGT	1.08
SL	MGU	1.88
SMW	MGM	3.19
SF	MGL	4.14
ASL		
AMG		
ASF		

SAILS RATED AREAS

Jib / Genoa	33.79
Symmetric Spin.	104.51
Asymmetric Spin.	0.00
Mainsail	42.09

BOAT

Name	Yacht Name	Class	X-35 OD
Sail Nr	JPN XXXX	GPH	602.6
		Data in	meters/kilograms

RIG

Forestay Tension	Aft	Spreaders	2				
Inner Forestay	None Fitted	Runners	0				
Carbon Mast	No	Jumpers	None				
Taper Hollows	No						
P	14.250	BAS	1.745	TL	1.230	BD	0.220
IG	14.500	FSP	0.068	J	4.185	BWT	
ISP	14.530	MDT1	0.125	SPL	4.180	SFJ	
SPS	2.600	MDL1	0.185	TPS		CPW	
MW	0.184	MDT2	0.122	E	4.900	MWT	156.00
GO	0.204	MDL2	0.140	BAL	0.152	MCG	4.600

HEAVY ITEMS

Headliners

Anchor Weight	C/R Adjustment	0.00150
Anchor LCG		

COMMENTS

O.D. TRIM PLUS TABLE AND CUSHIONS

INCLINING TEST AND FREEBOARDS

Inclining Test **Current Inclining**

Flotation date **04/05/2006** SG **1.0250**

FFM	1.321	FF	1.321	SFFP	0.075
FAM	0.980	FA	0.980	SAFP	10.275

W1	70.000	PD1	554.0	WD	11.240
W2	70.000	PD2	558.9	GSA	1.0
W3	70.000	PD3	554.0	RSA	1.0
W4	70.000	PD4	552.5	PLM	9000.0

Maximum beam station from stem	7.113
Righting Moment RM	111.7
Limit of positive stability	116.2
Stability Index	117.0

PROPELLER

Installation	Strut Drive				PRD	0.420
Type	Folding				PBW	0.128
Twin Screw	No				PIPA	0.0033
ST1	0.042	ST3	0.182	ST5	0.255	
ST2	0.178	ST4	0.112	EDL	2.390	

SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacturer	Material	Comment
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JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacturer	Material	Comment
1	0.10	0.64	1.21	2.29	3.34	4.45	14.62	110%	33.54				Kevlar	
2	0.10	0.64	1.21	2.29	3.34	4.45	14.62	110%	33.54				Kevlar	
3	0.10	0.00	0.00	0.00	0.00	3.92	14.47	100%	30.36				Unknown	

SYMMETRIC SPINNAKERS

Id	SL	SMW	SF	Area	Measurer	Meas.Date	Manufacturer	Material	Comment
1	14.36	7.87	7.36	104.51				Unknown	
2	14.29	7.90	7.37	104.34				Unknown	

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Measurer	Meas.Date	Manufacturer	Material	Comment
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MEASUREMENT INVENTORY

Measurer **Gerd Kall kall**
Measurement Date **2006/05/04**
Comment

Id	Item	Weight	Distance	Description
1	Anchor	10.0	6.70	Anchor 1
1	Chain	8.0	5.50	Warp
1	Tools	13.0	7.50	

Id	Item	Maker	Model
1	Engine	Yanmar	3YM20C

Id	Item	Weight	Description
1	Deck Gear	9.2 0	

MEASUREMENT INVENTORY

Id	Item	Tank Use	Tank Type	Capct	Dist.	Condt	Description
1	Liquid Tank	fuel	st.stl	60.0	5.95	0.0	fuel
2	Liquid Tank	H2O	pvc	120.0	5.35	0.0	Water
3	Liquid Tank	gas	steel	2.0	9.45	0.0	LPG gas

Id	Item	Weight	Distance	Description
1	Ballast	10.0	6.70	Anchor
1	Battery	46.8	4.65	120 Ah gel - services
2	Battery	18.4	5.00	55 Ah - engine
1	Miscellaneous	20.0	5.00	Table
2	Miscellaneous	8.0	5.00	Safety Equipment