

BOAT Name MOXIE Sail Nr ITA-35307	GPH 602.2	HULL Length Overall 10.600m Maximum Beam 3.250m Displacement 4,411kg Draft 2.168m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class X-35 Designer JEPPESEN Builder X YACHTS Series 09/2005 Age 09/2005 Age Allowance 0.455% Offset File x35.od.off - 29/01/2015 16:31:16 Measurement by - 11/03/2019		IMSL 9.422m VCGD 0.030m Sink 17.57kg/mm RL 9.144m VCGM 0.024m WS 22.84m² LSM0 9.215m Displacement/Length ratio 5.6370



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SCORING OPTIONS									
	COASTAL / LONG DISTANCE						WINDWARD / LEEWARD		
Time on Distance	586.9						653.1		
Time on Time	1.0223						1.0336		
Triple Number	Low	Medium	High	Low	Medium	High			
Time on Distance	678.3	537.0	482.8	871.6	655.3	577.4			
Time on Time	0.9952	1.2569	1.3980	0.7744	1.0301	1.1691			

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	973.5	805.9	723.5	698.3	688.0	676.7	672.3	
52°	643.7	546.2	510.4	500.0	495.5	492.6	485.6	
60°	611.1	529.1	499.1	487.5	482.4	479.7	470.3	
75°	586.4	518.1	490.1	472.4	461.8	456.2	449.2	
90°	591.6	516.7	484.4	468.4	449.2	434.6	421.5	
110°	606.4	514.4	478.6	450.3	427.4	413.5	392.0	
120°	625.0	523.3	484.0	454.1	426.3	400.8	367.1	
135°	693.0	564.3	505.3	474.8	446.1	418.6	361.1	
150°	822.0	656.4	557.3	504.9	476.3	449.7	398.8	
Run VMG	949.2	758.0	642.4	570.8	519.9	487.8	437.3	

Certificate
Number **353071**
ORC Ref **ITA00051557**
Issued On **04/04/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default 613kg
Maximum **623kg**
Minimum* **467kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	612.7	0.9793
Double H.OSN	599.0	1.0016
Non Spin GPH	632.3	0.9489
Non Spin OSN	615.2	0.9753

Selected Courses								
Windward / Leeward	961.3	781.9	683.0	634.5	603.9	582.2	554.8	
Circular Random	818.5	665.5	585.0	539.0	510.6	491.4	465.0	
Coastal / Long Distance	960.1	736.8	620.3	558.9	523.6	492.9	444.5	
Non Spinnaker	872.0	703.3	613.2	561.2	529.1	507.9	480.2	

Sails Limitations

Headsails	Spinnakers
5	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	42.0°	40.8°	38.9°	37.6°	37.3°	37.0°	37.6°	
Beat VMG	3.70	4.47	4.98	5.16	5.23	5.32	5.35	
52°	5.59	6.59	7.05	7.20	7.27	7.31	7.41	
60°	5.89	6.80	7.21	7.38	7.46	7.50	7.65	
75°	6.14	6.95	7.35	7.62	7.80	7.89	8.01	
90°	6.09	6.97	7.43	7.69	8.01	8.28	8.54	
110°	5.94	7.00	7.52	7.99	8.42	8.71	9.18	
120°	5.76	6.88	7.44	7.93	8.44	8.98	9.81	
135°	5.19	6.38	7.12	7.58	8.07	8.60	9.97	
150°	4.38	5.48	6.46	7.13	7.56	8.01	9.03	
Run VMG	3.79	4.75	5.60	6.31	6.92	7.38	8.23	
Gybe Angles	142.4°	148.4°	151.4°	158.9°	180.0°	180.0°	180.0°	

Class Division Length
CDL = **9.284**

Storm Sails Areas
Heavy Weather Jib **28.67**
Storm Jib (JL=9.48) **10.62**
Storm Trysail **11.97**

Owner

BOAT	
Name MOXIE	Sail Nr ITA-35307
File I35307	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners 0
Carbon Mast No	Jumper Struts None
Taper Hollows No	Jib Furler No
Fiber Rigging No	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 14.050	E 4.868 MDT1 0.125 MW 0.184
IG 14.499	J 4.170 MDL1 0.184 GO 0.205
ISP 14.544	SFJ 0.000 MDT2 0.125 BD 0.220
BAS 1.754	SPL 4.180 MDL2 0.145 MWT
FSP 0.068	TPS 5.020 TL 1.030 MCG

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 10/04/2017		SG 1.0270	
FFM 1.340	FF 1.340	SFFP 0.075	
FAM 0.977	FA 0.978	SAFP 10.275	
W1 66.2	PD1 480.2	WD 10.400	
W2 66.2	PD2 480.3	GSA 1.0	
W3 66.2	PD3 480.9	RSA 1.0	
W4 66.2	PD4 481.2	PLM 9000.0	
LCF from stem on CL / on sheer		5.988 / 6.186	
Maximum beam station from stem		7.300	
RM Measured		112.8kg·m	
RM Default		120.4kg·m	
Limit of positive stability / Stab.Index		117.4° / 117.8	
Freeboard at mast at 4.170		1.117	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.420		
Type Folding 2 blades	PBW		
Twin Screw No	PIPA 0.0033		
ST1 0.042	ST3 0.182	ST5 0.255	
ST2 0.178	ST4 0.112	EDL 2.390	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.220	1.05	1.84	3.16	4.08	40.86	41.69	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	14.28	14.28	14.28	7.73	7.45	91.32		SL · (SFL + 4·SHW) / 6	
Asymmetric	SLU	SLE	SL	SHW	SFL				
	14.47	13.50	13.98	5.74	7.63	71.30 76.97		AS · (SFL + 4·SHW) / 6	

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.11	0.72	1.32	2.41	3.41	4.37	14.42	33.60	Y		11/03/2019	Carbon	NS-LIGHT
0.10	0.71	1.31	2.39	3.38	4.34	14.40	33.27	Y		11/03/2019	Carbon	NS-MEDIUM
0.10	0.65	1.19	2.25	3.31	4.35	14.47	32.38	Y	N	10/04/2017	Unknow	LEGGERO
0.10	0.63	1.19	2.26	3.29	4.32	14.28	31.82	Y	N	10/04/2017	Unknow	MEDIO
0.00	0.00	0.00	0.00	0.00	3.90	14.13	28.05	Y	N	10/04/2017	Unknow	G3
0.00	0.00	0.00	0.00	0.00	3.80	14.07	27.22	Y	N	10/04/2017	Unknow	
0.00	0.00	0.00	0.00	0.00	3.98	11.54	23.38	N	Y	05/06/2017	Unknow	STAYSAIL

MEASUREMENT INVENTORY				
Measurer 174				
Date 10/04/2017				
Comment Marina S. Giusto				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
A	Engine	YANMAR	3YM20	
Id	Item	Weight Description		

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
A	Tank	FUEL	ALU	50.0	6.21	-0.20	48.0 L DX
B	Tank	WATER	PVC	150.0	5.38	-0.18	0.0 SX EMPTY
Id	Item	Weight	Distance	VCG Description			
A	Battery	0.0	5.15	-0.25 100 Ah-DX			
B	Battery	0.0	5.05	-0.25 74 Ah-DX			
A	Misc	0.0	7.18	0.27 CUCINA+FORNO			
B	Misc	0.0	9.95	0.50 PILOTA AUTOMATICO			

