

Certificate

Number **sy166**
Issued On **30/05/2021**
ORC Ref **03190001A8S**
VPP Ver. **2021 SY1.00**
Valid until **31/12/2021**

Superstructures

Area Front
Area Side
Dome frontal areas (m²) **0.25**

Powered Winches

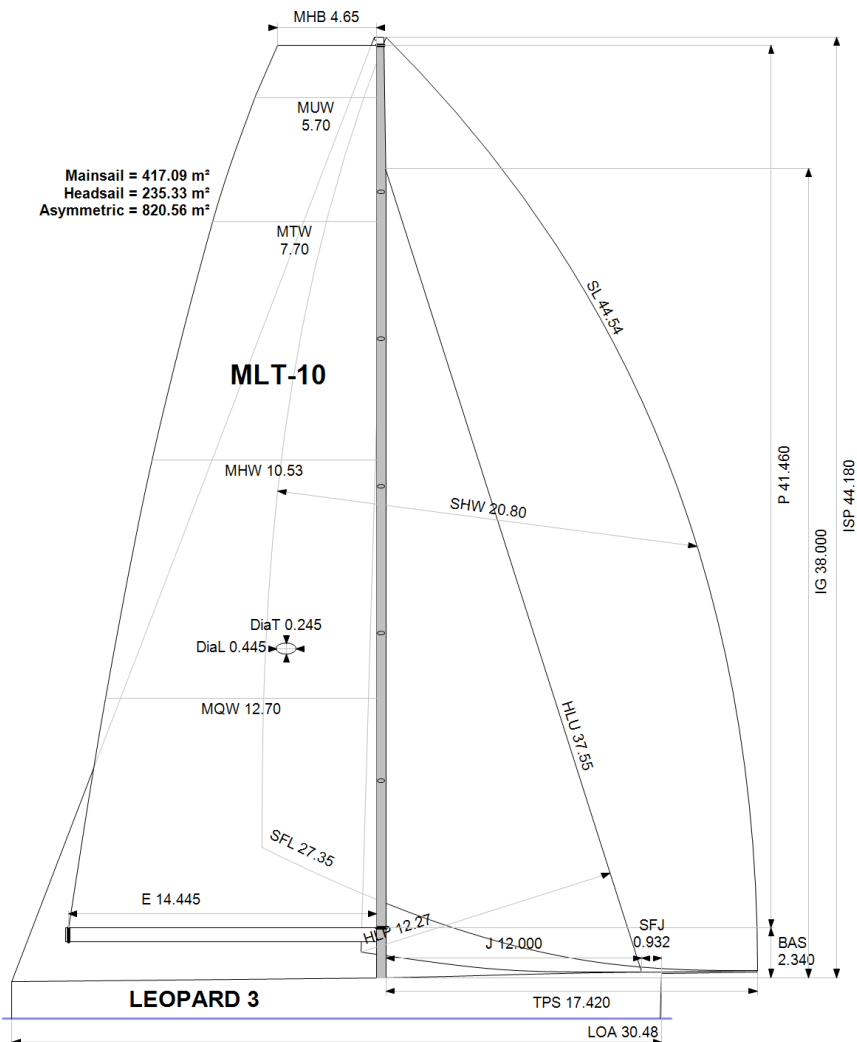
Halyard Power (KW) **27.0**
Halyard Speed (m/min)
Sheet Power (KW) **27.0**
Sheet Speed (m/min)

Propeller (measured)

No Propeller

Sails

Spinnaker Pole **No**
Furled sails Upwind **0**
Main Furler in Mast **No**
Main Furler in Boom **No**
Multiple Headsails
Headsail Count **1**
Headsail Flying Count **0**
Spinnaker Count **2**
Total Area Upwind **652.43**
Total Area Downwind **1237.65**



BOAT

Name **LEOPARD 3**
Sail Nr **MLT-10**

GENERAL

Class
Designer **FARR**
Builder **MCCONAGHY**
Series **12/2007**
Age Date **01/2008**
OPF up / down **0.0% / 0.0%**

Lightship Trim

Displacement **49,351** VCGD **-0.310**
Draft **5.457** VCGM **-0.412**
RM at 1° **3169.4kg·m**

RIG DETAILS

Rig Type **Sloop** Non-circular rigging **No**
Carbon mast **Yes** Fiber rigging **Yes**
Chainplate Width **5.780**

HULL

Data File **SY166** LOA **30.480**
Offset File **SY166.off** MB **6.782**
Dynamic All. **0.000%** Construction **Carbon**
Trim Tab **No** Skeg
Carbon Rudder **Yes** Aramid Core **Yes**
MCA Certified **Yes** Bow Thruster D.
CDL **28.798**

IMSL 30.277

Keel Angle **40.0** Trim tab **No**
List Angle **15.0** Bilgeboard **Yes**

Sailing Trim

Displacement **55,237** VCGD **-0.013m**
Draft **5.506m** VCGM **-0.115m**
RM at 1° **3224.3kg·m**

BILGEBOARD

BS **4.000** BT **0.130** BA **7.0**
BF **0.033** BX **13.912**
BC **0.862** BY **1.391**

SCORING OPTIONS

	Light	Light-Moderate	Moderate	Moderate-Strong	Strong
	TWS < 8	8 <= TWS < 11	11 <= TWS < 14	14 <= TWS < 17	TWS >= 17
Time Multiplying Factor TMF (TOT)	1.1623	1.4255	1.6688	1.8455	1.9930
Time allowances (TOD) sec/mi	430.2	350.7	299.6	270.9	250.9

MAINSAIL & MIZZEN							INCLINING TEST AND FREEBOARDS						
Area = $P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$							Flotation date 05/05/2016 SG 1.0200						
	MHB	MUW	MTW	MHW	MQW	Area	FFM	0.281	FF	0.303	SFFP	0.000	
Mainsail	4.65	5.70	7.70	10.53	12.70	417.09	FAM	0.302	FA	0.351	SAFP	30.480	
Mizzen						0.00	W1	290.0	PD1	37.0	WD	10.703	
Mizzen Staysail	YSD	SHW	SFL	Area			W2	290.0	PD2	37.0	GSA	1.0	
with Spinnaker				0.00			W3	290.0	PD3	37.0	RSA	1.0	
with Headsail				0.00			W4	290.0	PD4	37.0	PLM	4500.00	
							LCF from stem on CL / on sheer 17.532 / 17.829						
							RM at 1° (measurement trim) 3307.0kg·m						

ORC

Offshore Racing Congress
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2021

Measurements
Datasheet

Certificate

Number **sy166**
Yacht Name **LEOPARD 3**

Sail Nr **MLT-10**
Data in **meters/kilograms**
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COMMENTS

HEADSAILS													
Area = $0.1125 \cdot HLU \cdot (1.445 \cdot HLP + 2 \cdot HQW + 2 \cdot HHW + 1.5 \cdot HTW + HUW + 0.5 \cdot HHB)$													
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Flying	Furler*	Meas.Date	Comment		
0.18	1.74	3.29	6.32	9.29	12.27	37.55	235.33	No	No	10/02/2020			
0.15	1.25	2.40	4.77	7.19	9.61	28.65	137.71	No	Yes	10/02/2020			
Tacking Unfurling Staysail No													
* "TA" denotes "Headsail eligible for allowance because it must be furled more than 50% when tacking"													

SPINNAKERS							SPINNAKERS						
Area = $(SLU+SLE)/2 \cdot (SFL + 4 \cdot SHW) / 6$													
SLU	SLE	SHW	SFL	Area	Measured	Comment	SLU	SLE	SHW	SFL	Area	Measured	Comment
45.87	43.20	20.80	27.35	820.56	31/07/2020	A3							
40.03	34.36	17.82	23.71	588.86	25/05/2021	A5							

TANKS							
Id	Use	Volume	LCG	VCG	Sp.Wht	Level Msmt	Level Sailing Description
A	FUEL	730	17.50	0.69	0.8400	0.900	0.100
B	FUEL	860	17.49	0.57	0.8400	0.900	0.100
C	WATER	730	17.50	0.69	1.0000	0.900	0.100
D	WATER	860	17.49	0.57	1.0000	0.900	0.100

INVENTORY							
Id	Weight Msmt	Weight Sailing	LCG	VCG	Gyr.Adj.	Description	
A	30	100	3.00	0.80	Y	LONG WARP	
B	60	50	3.00	0.80	Y	ANCHOR	
C		0	2.30	0.05	Y	ANCHOR SUB	
D		0	5.54	0.37	Y	CHAIN	
E	320	0	19.14	5.07	N	MAIN ON BOOM	
K	50	50	3.00	0.80	N	SHEET	
L	3	3	28.57	0.80	N	SPARES	
M	80	80	26.43	0.80	N	HYDR.OIL SPARES 90LT	
N	20	20	26.43	0.80	N	EM.STEERING	
O	17	17	26.43	0.80	N	ENGINE OIL 18 LT	
P	20	20	29.75	2.50	N	JON BUOYS (ON TRANSOM X2)	
R	3	3	29.75	4.00	N	EPIRB (AFT RAIL)	
S	8	0	14.70	3.50	N	HORSECHOE RINGS- 2 ON KICKER	
T	25	25	24.73	1.20	N	SAFETY EQUIPMENT SPARES /PORT AFT BUNK	
U	30	30	26.50	1.00	N	FLARES BEHIND CHART TABLE	
V	110	110	24.73	1.20	N	STBD CREW BUNK STORES/SAFETY EQUIP	
W	228	228	30.00	0.80	N	LIFERAFTS (ON TRANSOM)	
X	316	0	27.19	0.87	N	WEIGHT TO BE DOWNLOADED	
Z	75	0	2.00	1.00	N	STORM JIB (FOREPEAK)	

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Sail Nr **MLT-10**
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