

BOAT Name CHEETAH Sail Nr USA 50473	GPH 567.0	HULL Length Overall 10.910m Maximum Beam 3.588m Displacement 3,882kg Draft 2.254m Plan Review IMS Reg. Division Performance Dynamic Allowance 0.000% Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class MUMM 36 Designer FARR Builder CARROLL Series 01/1993 Age 12/1994 Age Allowance 0.487% Offset File MUMM36.OFF - 10/05/1994 12:39:00 Measurement by - 26/04/2017		IMSLS 9.886m VCGD -0.227m Sink 17.10kg/mm RL 10.044m VCGM -0.242m WS 22.28m² LSM0 9.592m Displacement/Length ratio 4.3987



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	554.7			625.9		
Time on Time	1.0816			1.0785		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	632.1	508.6	454.5	816.1	626.6	557.3
Time on Time	1.0679	1.3272	1.4851	0.8271	1.0772	1.2112

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	920.8	760.8	690.6	666.3	655.1	650.7	644.3
52°	608.1	520.3	492.4	481.9	476.2	472.9	468.7
60°	576.9	506.4	481.4	468.3	460.8	456.2	452.5
75°	542.8	491.4	471.2	450.4	435.6	427.5	419.8
90°	526.5	477.9	451.7	433.5	420.0	405.6	387.1
110°	539.7	482.2	447.7	415.8	389.7	371.6	345.2
120°	566.7	490.5	453.2	419.0	392.5	363.7	321.4
135°	641.3	519.9	474.4	438.9	403.6	368.3	307.0
150°	760.9	609.7	521.1	478.5	451.9	421.9	351.0
Run VMG	878.6	704.0	601.8	552.0	521.9	487.1	405.3

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Number **US6204**
ORC Ref **03410000RTT**
Issued On **13/10/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default **649kg**
Maximum **649kg**
Minimum* **487kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 608.1	0.9867
Non Spin OSN 593.2	1.0114

Selected Courses							
Windward / Leeward	899.7	732.4	646.2	609.1	588.5	568.9	524.8
Circular Random	764.4	624.7	551.5	509.4	482.4	462.6	431.2
Coastal / Long Distance	897.6	690.2	586.7	530.9	498.6	467.0	411.0
Non Spinnaker	838.6	677.0	590.1	539.2	507.1	485.1	454.7

Sails Limitations

Headsails	Spinnakers
6	4

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°	40.5°	38.3°	37.1°	36.4°	36.4°	36.4°
Beat VMG	3.91	4.73	5.21	5.40	5.50	5.53	5.59
52°	5.92	6.92	7.31	7.47	7.56	7.61	7.68
60°	6.24	7.11	7.48	7.69	7.81	7.89	7.96
75°	6.63	7.33	7.64	7.99	8.26	8.42	8.58
90°	6.84	7.53	7.97	8.30	8.57	8.88	9.30
110°	6.67	7.47	8.04	8.66	9.24	9.69	10.43
120°	6.35	7.34	7.94	8.59	9.17	9.90	11.20
135°	5.61	6.92	7.59	8.20	8.92	9.78	11.73
150°	4.73	5.90	6.91	7.52	7.97	8.53	10.26
Run VMG	4.10	5.11	5.98	6.52	6.90	7.39	8.88
Gybe Angles	143.5°	146.0°	149.5°	151.5°	148.3°	146.0°	142.0°

Class Division Length

CDL = **9.958**

Storm Sails Areas

Heavy Weather Jib **24.26**
Storm Jib (JL=8.72) **8.99**
Storm Trysail **12.21**

Owner

BOAT	
Name CHEETAH	Sail Nr USA 50473
File US6204	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners/Checkstays 2
Carbon Mast Yes	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 13.864	E 5.029 MDT1 0.122 MW 0.165
IG 13.331	J 3.800 MDL1 0.168 GO 0.186
ISP 15.726	SFJ 0.185 MDT2 0.111 BD 0.150
BAS 1.967	SPL 0.000 MDL2 0.130 MWT 117.00
FSD 0.032	TPS 5.773 TL 1.400 MCG 4.835

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 26/04/2017		SG 1.0080	
FFM 1.153	FF 1.165	SFFP 0.414	
FAM 0.914	FA 0.914	SAFP 10.334	
W1 59.5	PD1 516.2	WD 12.640	
W2 59.5	PD2 515.1	GSA 1.0	
W3 59.5	PD3 516.6	RSA 1.0	
W4 59.5	PD4 519.9	PLM 9000.0	
LCF from stem on CL / on sheer		6.114 / 6.349	
Maximum beam station from stem		6.703	
RM Measured		114.6kg-m	
RM Default		106.6kg-m	
Limit of positive stability / Stab.Index		124.6° / 119.9	
Freeboard at mast at 3.985		1.014	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.438		
Type Folding 2 blades	PBW 0.118		
Twin Screw No	PIPA 0.0034		
ST1 0.042	ST3 0.182	ST5 0.286	
ST2 0.182	ST4 0.110	EDL 0.840	

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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	
	0.16	1.00	1.85	3.19	4.17	40.91	41.72	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	17.19	15.26	16.23	9.75	10.03	132.59	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	Flying	Meas.Date	Material	Comment
0.09	0.73	1.38	2.74	4.27	5.80	13.20	37.49		No	12/10/2020		

MEASUREMENT INVENTORY				
Measurer	Date	Comment		
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
a	Anchor	0.0	0.00	
Id	Item	Weight Description		

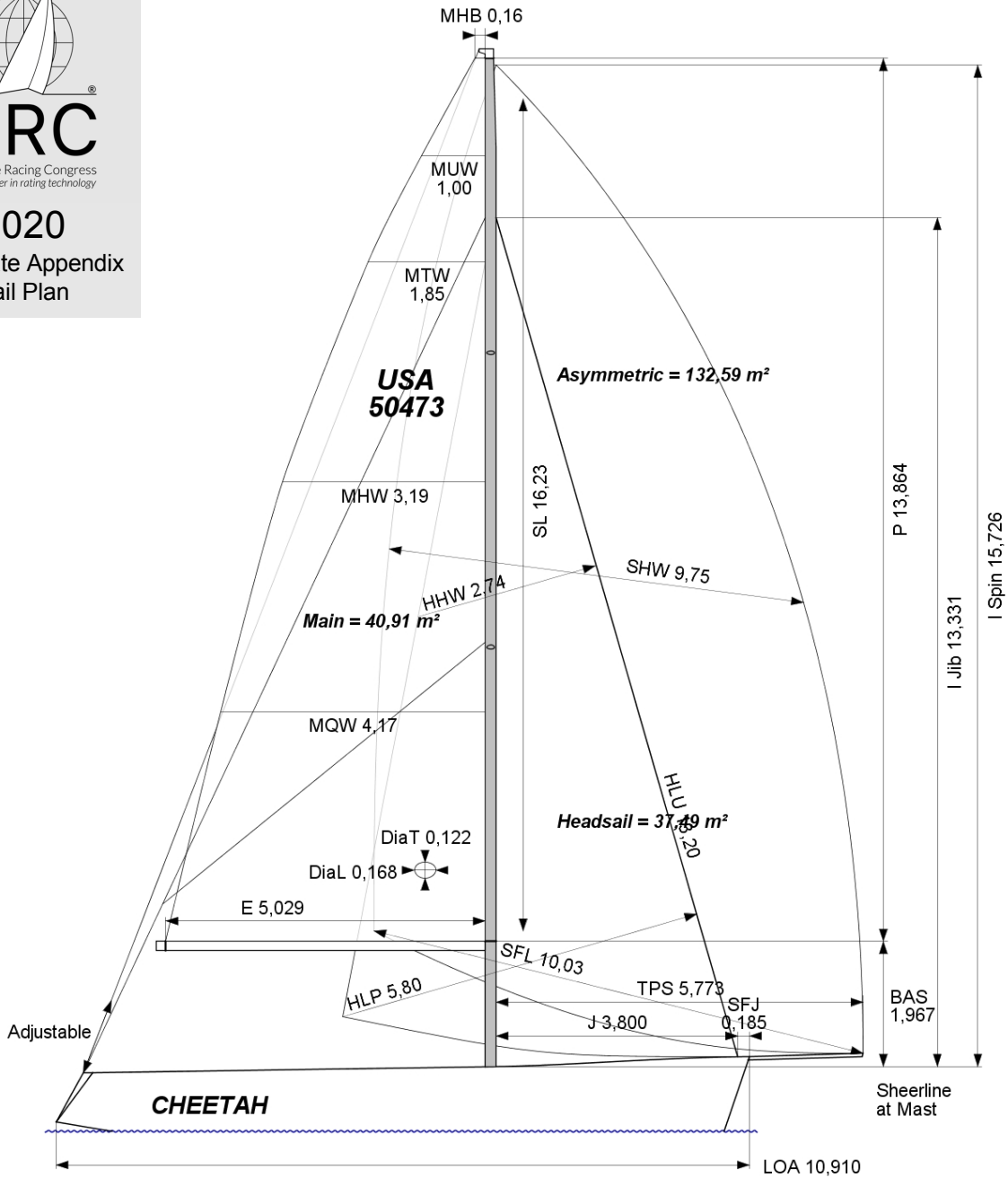
MEASUREMENT INVENTORY									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
	Tank					0.00	-0.10	14.9	
Id	Item	Weight	Distance	VCG Description					



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
139566-001	0.16	1.00	1.85	3.19	4.17	40.91		12/10/2020	North	Unknown	2020 mainsail					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
135516-	0.09	0.73	1.38	2.74	4.27	5.80	13.20	153%	37.49		No		12/10/2020	NORTH		
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
135137-001	17.19	15.26	16.23	9.75	10.03	132.59	asym		12/10/2020	northsails		a2 2020				
OUS127936-	16.30	15.42	15.86	6.15	8.14	86.55	asy76		01/05/2018		Unknown					