

BOAT
Name ARCTURUS OF DOVER Sail Nr CYP-417

GPH
581.9

HULL	
Length Overall	12.240m
Maximum Beam	3.902m
Displacement	7,793kg
Draft	2.481m
IMS Reg. Division	Performance
Dynamic Allowance	0.065%
Fwd Accommodation	Yes
Hull Construction	Solid
Carbon Rudder	No
Crew Arm Extension	
IMSL	11.226m VCGD -0.032m Sink 24.07kg/mm
RL	10.163m VCGM -0.056m WS 32.87m²
LSM0	11.043m Displacement/Length ratio 5.7869



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2018
ORC International
Certificate

GENERAL
Class BENETEAU FIRST 40
Designer FARR
Builder BENETEAU
Series 01/2008
Age 01/2012
Age Allowance 0.325%
Offset File F240.OFF - 23/01/2009 10:12:46
Measurement by SFAKIAN./GEORGAK. - 02/05/2014

Rating Office

Offshore
Racing
Congress

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	565.3			630.4		
Time on Time	1.0614			1.0707		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	668.6	514.7	459.0	865.4	633.8	548.3
Time on Time	1.0096	1.3114	1.4705	0.7800	1.0650	1.2310

**Invalid for
Racing**



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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	966.7	795.2	701.5	662.4	645.9	638.1	627.8
52°	636.4	531.7	484.7	467.8	461.4	458.0	454.2
60°	603.4	509.4	472.0	456.5	449.6	445.8	442.9
75°	578.9	495.3	463.1	446.2	434.1	426.6	419.6
90°	585.2	496.6	459.4	443.3	427.6	413.2	393.4
110°	596.5	492.7	453.3	430.7	411.4	399.6	379.5
120°	615.1	505.4	459.7	434.7	411.4	389.5	362.5
135°	686.7	555.9	485.3	453.2	430.5	407.0	361.1
150°	820.5	651.2	548.4	485.4	454.6	433.1	390.0
Run VMG	947.5	751.9	633.2	555.6	505.2	467.3	423.8

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Number **033/18**
ORC Ref **CYP00000765**
Issued On **30/08/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Selected Courses							
Windward / Leeward	957.1	773.6	667.4	609.0	575.5	552.7	525.8
Circular Random	802.9	647.4	564.3	516.4	487.1	467.7	442.6
Coastal / Long Distance	956.1	727.0	602.1	532.9	496.9	468.4	424.2
Non Spinnaker	855.1	684.2	591.6	537.3	503.7	481.5	452.9

Crew Weight

Default 793kg
Maximum **793kg**
Minimum* **595kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

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	42.5°	41.1°	40.0°	38.4°	37.6°	37.3°	37.4°
Beat VMG	3.72	4.53	5.13	5.44	5.57	5.64	5.73
52°	5.66	6.77	7.43	7.70	7.80	7.86	7.93
60°	5.97	7.07	7.63	7.89	8.01	8.08	8.13
75°	6.22	7.27	7.77	8.07	8.29	8.44	8.58
90°	6.15	7.25	7.84	8.12	8.42	8.71	9.15
110°	6.04	7.31	7.94	8.36	8.75	9.01	9.49
120°	5.85	7.12	7.83	8.28	8.75	9.24	9.93
135°	5.24	6.48	7.42	7.94	8.36	8.84	9.97
150°	4.39	5.53	6.56	7.42	7.92	8.31	9.23
Run VMG	3.80	4.79	5.69	6.48	7.13	7.70	8.50
Gybe Angles	141.1°	148.4°	150.3°	155.2°	168.2°	180.0°	180.0°

Special Scoring

ToD ToT
Non Spin GPH **610.7 0.9825**
Non Spin OSN **592.9 1.0120**

Sails Limitations	
Headsails	Spinnakers
1	4

Class Division Length

CDL = **10.696**

Storm Sails Areas


Heavy Weather Jib **35.39**
Storm Jib (JL=10.52) **13.11**
Storm Trysail **14.75**

Owner

BOAT	
Name ARCTURUS OF File ARCTDOV	Sail Nr CYP-417 Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 02/05/2014		SG 1.0270
FFM 1.371	FF 1.370	SFFP 0.261
FAM 1.066	FA 1.066	SAFP 11.831
W1 99.3	PD1 398.8	WD 10.050
W2 99.3	PD2 398.8	GSA 1.0
W3 99.3	PD3 398.8	RSA 1.0
W4 99.3	PD4 398.8	PLM 9000.0
LCF from stem on CL / on sheer		6.666 / 6.923
Maximum beam station from stem		7.802
RM Measured		197.1kg-m
RM Default		201.5kg-m
Limit of positive stability / Stab.Index		122.3° / 125.2
Freeboard at mast at 4.550		1.251

RIG				
Forestay Tension Aft	Spreaders 2			
Inner Stay None Fitted	Runners 0			
Carbon Mast No	Jumper Struts None			
Taper Hollows No	Jib Furler Yes			
Fiber Rigging No	Main Furler No			
Lenticular Rigging No	Without Backstay No			
Articulated Bowsprit No				
P 15.670	E 5.380	MDT1 0.100	MW 0.230	
IG 16.192	J 4.550	MDL1 0.230	GO 0.230	
ISP 16.192	SFJ 0.000	MDT2 0.100	BD 0.190	
BAS 1.727	SPL 5.070	MDL2 0.210	MWT 	
FSP 0.040	TPS 	TL 1.205	MCG 	




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IMS Measurement Certificate

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.440	
Type Folding 2 blades	PBW 0.115	
Twin Screw No	PIPA 0.0036	
ST1 0.042	ST3 0.180	ST5 0.280
ST2 0.180	ST4 0.112	EDL 2.230

COMMENTS

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.100	1.94	2.23	3.40	4.47	51.82	53.24	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	Area	Formula		
	17.85	15.60	16.73	8.13	9.20	116.29	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
0.12	0.81	1.56	3.09	4.62	6.16	15.36	47.57			29/08/2018	Carbon	
0.06	0.52	1.06	2.24	3.55	4.97	15.43	36.28			02/05/2014	Dacron	

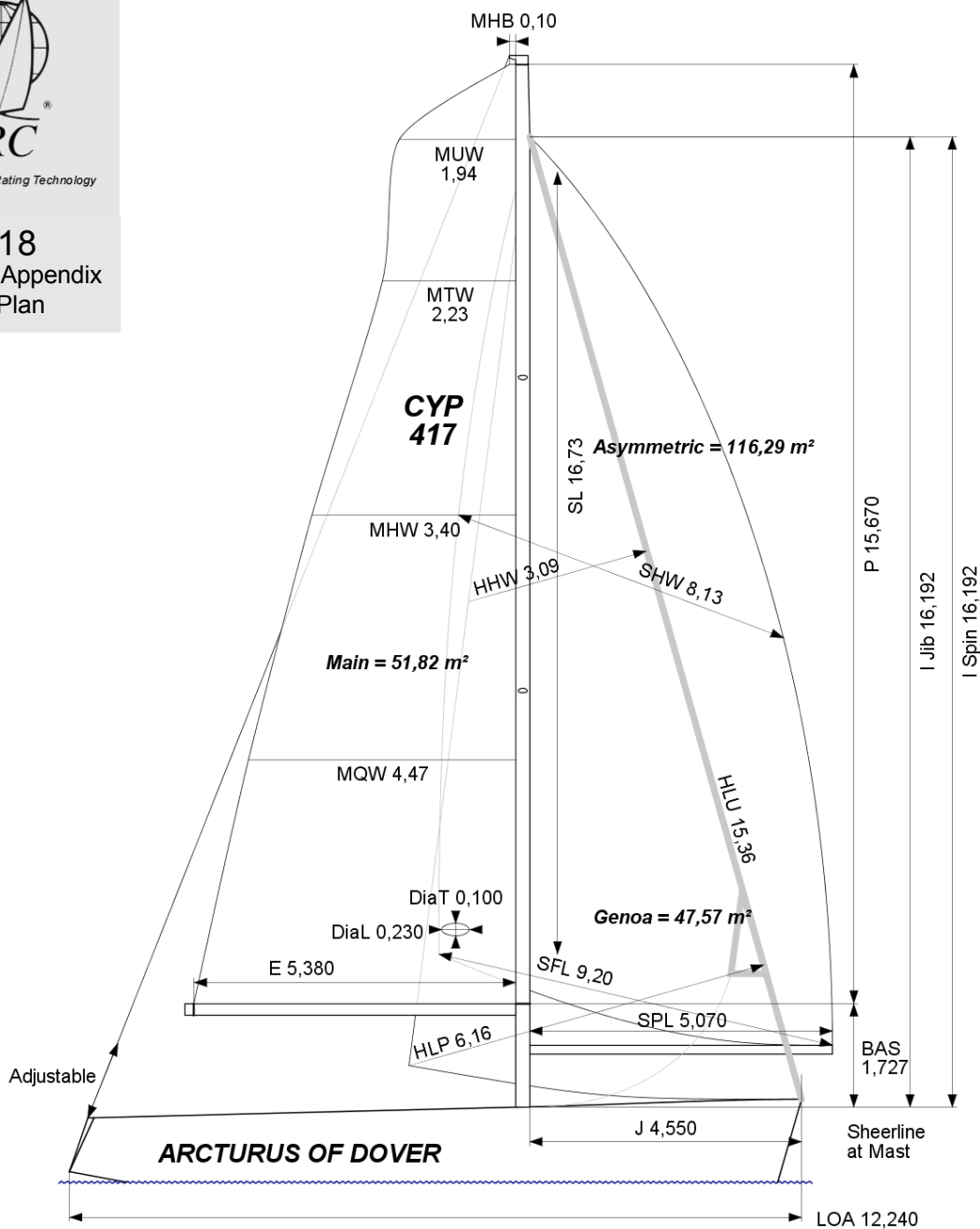
MEASUREMENT INVENTORY				
Measurer K.SFAKIANAKI CYP-1				
Date 02/05/2014				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY								
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>
W3	Tank	WATER	PLASTIC	100.0	5.65		0-0	
W2	Tank	WATER	PLASTIC	100.0	5.65		0-0	
W1	Tank	WATER	PLASTIC	50.0	2.25		0-0	
FU	Tank	DIESEL	PLASTIC	130.0	8.40	0.00	0-0	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				
2	Battery	15.0	8.95	110 Ah				
1	Battery	15.0	9.05	110 Ah				



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (2)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measur	Meas.Date	Manufacture	Material	Comment
M2	0.100	1.94	2.23	3.40	4.47	51.82	NS-ISR	29/08/2018		Unknown	
M1	0.130	0.88	1.68	3.11	4.34	46.51	CYP-1	02/05/2014		Dacron	

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measur	Meas.Date	Manufacture	Material	Comment
J2	0.12	0.81	1.56	3.09	4.62	6.16	15.36	135%	47.57			GEORGA	29/08/2018	NORTH	Carbon	
J1	0.06	0.52	1.06	2.24	3.55	4.97	15.43	109%	36.28			CYP-1	02/05/2014		Dacron	

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measur	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measur	Meas.Date	Manufacture	Material	Comment
A2	17.85	15.60	16.73	8.13	9.20	116.29	asym	CYP-1	02/05/2014		Unknown	