

BOAT
Name OAKCLIFF FARR 40 BLACK Sail Nr USA 51695

GPH
527.2

HULL	
Length Overall	12.410m
Maximum Beam	3.956m
Displacement	5,251kg
Draft	2.605m
IMS Reg. Division	Performance
Dynamic Allowance	0.003%
Fwd Accommodation	No
Hull Construction	Cored
Carbon Rudder	Yes
Crew Arm Extension	0.00
IMSL	11.311m VCGD -0.304m Sink 21.36kg/mm
RL	11.399m VCGM -0.316m WS 28.19m²
LSM0	11.039m Displacement/Length ratio 3.9035



ORC
Offshore Racing Congress
World leader in rating technology

2019
ORC International
Certificate

GENERAL
Class Farr 40
Designer FARR
Builder CARROLL
Series 04/1997
Age 04/1998
Age Allowance 0.487%
Offset File US30782B.OFF - 16/06/2015 16:42:24
Measurement by - 29/05/2019

Rating Office
Offshore Racing Congress

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	514.0			576.4		
Time on Time	1.1672			1.1711		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	589.4	472.3	419.8	758.1	580.1	507.7
Time on Time	1.1453	1.4292	1.6081	0.8904	1.1635	1.3296

COPY ONLY
Invalid for
RACING

World Leader In Rating Technology

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	863.0	708.7	647.2	625.4	615.2	602.1	597.4
52°	567.4	481.4	457.1	448.4	443.6	439.3	431.1
60°	536.0	467.1	445.2	435.0	428.7	424.9	412.5
75°	512.0	457.7	433.0	414.1	403.2	396.4	386.9
90°	515.8	457.8	431.4	406.3	385.9	371.5	357.6
110°	513.0	447.4	421.0	403.1	385.9	369.0	332.3
120°	526.4	449.9	414.5	388.6	371.0	355.9	321.9
135°	590.6	473.1	432.7	396.7	361.9	328.8	288.4
150°	703.8	561.2	479.0	434.5	406.7	375.3	304.4
Run VMG	812.6	648.0	553.1	502.5	469.6	433.4	351.5

Certificate
Number US6404
ORC Ref US00000275
Issued On 29/05/2019
VPP Ver. 2019 1.01
Valid until 31/12/2019

Selected Courses							
Windward / Leeward	837.8	678.4	600.1	564.0	542.4	517.8	474.5
Circular Random	713.8	581.8	512.5	472.5	446.6	427.4	397.3
Coastal / Long Distance	835.3	639.5	544.8	492.3	461.7	431.9	380.5
Non Spinnaker	783.8	631.6	549.5	500.8	469.6	447.9	418.7

Crew Weight
Default 793kg
Maximum 793kg
Minimum* 595kg
*when applied by the NoR and SI
Non Manual Pwr Yes

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	42.4°	40.9°	38.4°	37.6°	37.1°	36.3°	36.7°
Beat VMG	4.17	5.08	5.56	5.76	5.85	5.98	6.03
52°	6.34	7.48	7.88	8.03	8.11	8.19	8.35
60°	6.72	7.71	8.09	8.28	8.40	8.47	8.73
75°	7.03	7.87	8.31	8.69	8.93	9.08	9.30
90°	6.98	7.86	8.35	8.86	9.33	9.69	10.07
110°	7.02	8.05	8.55	8.93	9.33	9.76	10.83
120°	6.84	8.00	8.69	9.26	9.70	10.12	11.18
135°	6.10	7.61	8.32	9.07	9.95	10.95	12.48
150°	5.12	6.41	7.52	8.29	8.85	9.59	11.83
Run VMG	4.43	5.56	6.51	7.16	7.67	8.31	10.24
Gybe Angles	142.7°	144.4°	149.2°	152.4°	149.1°	146.5°	143.7°

Special Scoring	
ToD	ToT
Non Spin GPH 566.2	1.0597
Non Spin OSN 553.4	1.0843

Sails Limitations	
Headsails 6	Spinnakers 4

Class Division Length
CDL = 11.356

Storm Sails Areas	
Heavy Weather Jib 37.10	
Storm Jib (JL=10.78) 13.74	
Storm Trysail 17.25	

Owner

BOAT		
Name	OAKCLIFF FARR 40	Sail Nr USA 51695
File	US6404	Data in meters/kilograms

RIG							
Forestay Tension	Aft	Spreaders 2					
Inner Stay	None Fitted	Runners 0					
Carbon Mast	Yes	Jumper Struts None					
Taper Hollows	No	Jib Furler No					
Fiber Rigging	Yes	Main Furler No					
Lenticular Rigging	No	Without Backstay No					
Articulated Bowsprit							
P	16.700	E	5.900	MDT1	0.125	MW	0.240
IG	16.506	J	4.710	MDL1	0.240	GO	0.260
ISP	18.356	SFJ	0.000	MDT2	0.090	BD	0.220
BAS	1.760	SPL	0.000	MDL2	0.120	MWT	199.60
FSP	0.068	TPS	6.620	TL	1.750	MCG	5.664

INCLINING TEST AND FREEBOARDS					
Inclining Test Enter VCG directly					
Flotation date	30/04/2015	SG 1.0190			
VCGDe -0.304					
FFM	1.337	FF	1.339	SFFP	0.152
FAM	1.023	FA	1.024	SAFP	11.954
LCF from stem on CL / on sheer		6.845 / 7.102			
Maximum beam station from stem		8.199			
RM Measured		173.8kg-m			
RM Default		167.0kg-m			
Limit of positive stability / Stab.Index		129.5° / 126.1			
Freeboard at mast at 4.710		1.189			



ORC
Offshore Racing Congress
World leader in rating technology

2019
IMS Measurement
Certificate

MIZZEN RIG AND SAILS		
N/A		

PROPELLER			
Installation	Strut	PRD	0.407
Type	Folding 2 blades	PBW	0.131
Twin Screw		PIPA	0.0035
ST1	0.041	ST3	0.113
ST2	0.113	ST4	0.111
ST5	0.268	EDL	0.702

Certificate	
Number	US6404
ORC Ref	US00000275
Issued On	29/05/2019
VPP Ver.	2019 1.01
Valid until	31/12/2019

COMMENTS		

MOVABLE BALLAST		
N/A		

CENTERBOARD		
N/A		



COPY ONLY
Invalid for Racing

World Leader In Rating Technology

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.180	1.47	2.42	3.86	4.95	59.93	61.40	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	AS · (SFL + 4·SHW) / 6		
	21.60	18.02	19.81	11.36	11.50	188.00			

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
	0.00	1.31	2.54	3.70	4.90	16.14	40.44				Unknow	

