

BOAT Name OAKCLIFF FARR 40 RED Sail Nr USA 46957	GPH 529.0	HULL Length Overall 12.415m Maximum Beam 3.956m Displacement 4,971kg Draft 2.592m IMS Reg. Division Performance Dynamic Allowance 0.001% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension 0.00
GENERAL Class FARR 40 Designer FARR Builder CARROLL MARINE Series 01/2000 Age 01/2000 Age Allowance 0.487% Offset File US30782A.OFF - 12/10/1999 08:51:16 Measurement by - 14/05/2018		IMSL 11.215m VCGD -0.220m Sink 20.89kg/mm RL 11.210m VCGM -0.218m WS 27.59m² LSM0 10.925m Displacement/Length ratio 3.8122



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	516.1			579.2		
Time on Time	1.1625			1.1653		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	589.6	474.7	421.9	758.2	583.9	510.6
Time on Time	1.1449	1.4220	1.5999	0.8903	1.1560	1.3220

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	861.0	708.2	651.7	630.7	619.9	605.0	601.1
52°	565.5	481.6	460.0	451.6	447.0	441.2	434.0
60°	533.8	467.3	447.1	437.8	432.1	427.5	415.7
75°	510.3	457.6	433.0	415.7	406.2	400.3	388.1
90°	513.6	457.7	430.3	404.9	386.1	374.3	362.4
110°	515.2	449.1	422.7	404.0	386.6	369.4	331.0
120°	529.6	452.2	415.8	389.9	372.5	353.8	321.2
135°	591.4	477.1	435.5	398.9	363.5	329.9	288.6
150°	705.7	561.7	481.2	438.1	409.4	377.7	305.3
Run VMG	814.8	648.6	555.7	506.6	472.8	436.1	352.5

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Number **US6305**
ORC Ref **USAX027FRB3**
Issued On **17/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight

Default **781kg**
Maximum **760kg**
Minimum* **570kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	566.9	1.0584
Non Spin OSN	554.2	1.0826

Selected Courses							
Windward / Leeward	837.9	678.4	603.7	568.6	546.3	520.5	476.8
Circular Random	714.9	583.3	514.5	474.7	448.9	429.6	399.2
Coastal / Long Distance	835.6	639.6	547.6	495.6	464.5	433.7	382.6
Non Spinnaker	783.3	631.8	550.2	502.0	471.2	449.7	420.6

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	42.5°	41.0°	38.6°	37.7°	37.1°	36.3°	36.7°
Beat VMG	4.18	5.08	5.52	5.71	5.81	5.95	5.99
52°	6.37	7.48	7.83	7.97	8.05	8.16	8.29
60°	6.74	7.70	8.05	8.22	8.33	8.42	8.66
75°	7.06	7.87	8.31	8.66	8.86	8.99	9.28
90°	7.01	7.87	8.37	8.89	9.32	9.62	9.93
110°	6.99	8.02	8.52	8.91	9.31	9.75	10.88
120°	6.80	7.96	8.66	9.23	9.66	10.18	11.21
135°	6.09	7.54	8.27	9.03	9.90	10.91	12.48
150°	5.10	6.41	7.48	8.22	8.79	9.53	11.79
Run VMG	4.42	5.55	6.48	7.11	7.61	8.26	10.21
Gybe Angles	142.6°	143.9°	149.9°	152.3°	149.1°	146.4°	143.7°

Class Division Length

CDL = **11.213**

Storm Sails Areas

Heavy Weather Jib **35.82**
Storm Jib (JL=10.59) **13.27**
Storm Trysail **17.26**

Owner

BOAT		
Name	OAKCLIFF FARR 40	Sail Nr USA 46957
File	US6305	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 14/05/2018		SG 1.0230
FFM 1.338	FF 1.335	SFFP 0.152
FAM 1.025	FA 1.034	SAFP 11.954
W1 80.7	PD1 539.1	WD 13.552
W2 80.7	PD2 539.0	GSA 1.0
W3 80.7	PD3 540.1	RSA 1.0
W4 80.7	PD4 538.0	PLM 9000.0
LCF from stem on CL / on sheer		6.791 / 7.049
Maximum beam station from stem		8.199
RM Measured		159.8kg-m
RM Default		162.2kg-m
Limit of positive stability / Stab.Index		126.3° / 122.7
Freeboard at mast at 4.700		1.200



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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	No	Main Furler No
Lenticular Rigging	No	Without Backstay No
Articulated Bowsprit	No	
P 16.700	E 5.905	MDT1 0.125 MW 0.240
IG 16.219	J 4.700	MDL1 0.240 GO 0.260
ISP 18.315	SFJ 0.000	MDT2 0.090 BD 0.225
BAS 1.785	SPL 0.000	MDL2 0.104 MWT 178.70
FSP 0.068	TPS 6.485	TL 1.750 MCG 5.497

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation	Strut	PRD 0.407
Type	Folding 2 blades	PBW 0.106
Twin Screw	No	PIPA 0.0035
ST1 0.041	ST3 0.180	ST5 0.268
ST2 0.180	ST4 0.111	EDL 0.702

COMMENTS	

MOVABLE BALLAST	
N/A	

BILGEBOARD		
BS	BT	BA
BF	BX	
BC	BY	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.180	1.47	2.42	3.86	4.95	59.94	61.41	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		
	19.96	16.97	18.46	11.28	11.36	173.82	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
0.15	0.66	1.31	2.54	3.71	4.90	16.14	40.46	Y				M1

MEASUREMENT INVENTORY				
Measurer	Date	Comment		
Id	Item	Weight	Distance	VCG Description
a	Ancher	0.0	0.00	
Id	Item	Weight	Description	

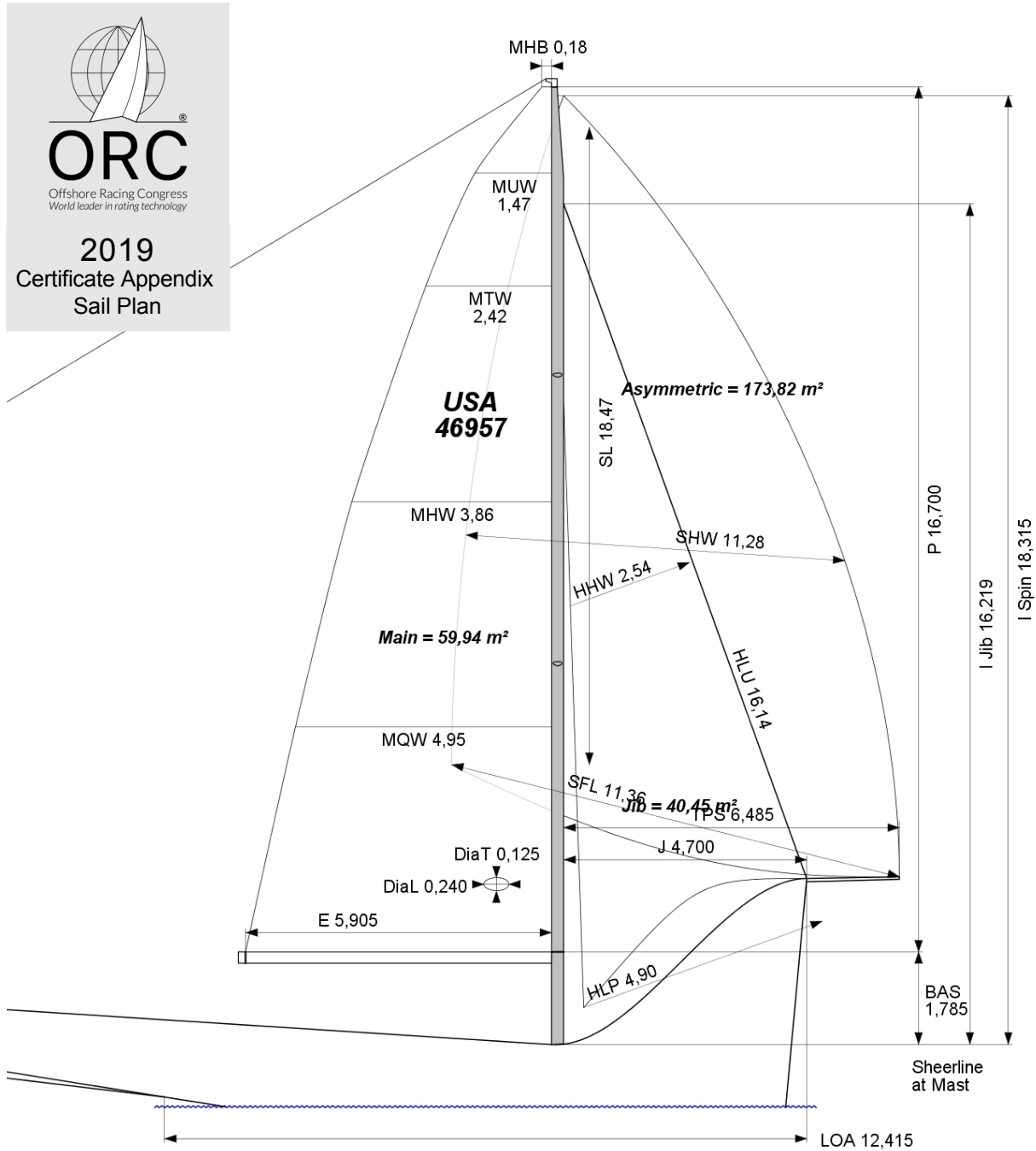
MEASUREMENT INVENTORY									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
	Tank					8.80	0.00	76.0	
Id	Item	Weight	Distance	VCG	Description				



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1822979	0.18	1.47	2.42	3.86	4.95	59.95			North		2018 OFFSHORE					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1822988	0.15	0.66	1.31	2.54	3.71	4.90	16.14	104%	40.46	Y				Doyle		M1
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1822999	19.96	16.97	18.46	11.28	11.36	173.82	asym			Doyle		A2 DOYLE				