



ORC
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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **061/20**
Issued On **01/10/2020**
ORC Ref **02920000RAO**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 639kg
Maximum **780kg**
Minimum* **585kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	621.8	0.9649
Non Spin OSN	604.7	0.9923

Sails Limitations

Headsails **6** Spinnakers **4**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 131.33**
Flying H/S: **No**
Spin. Pole: **No**

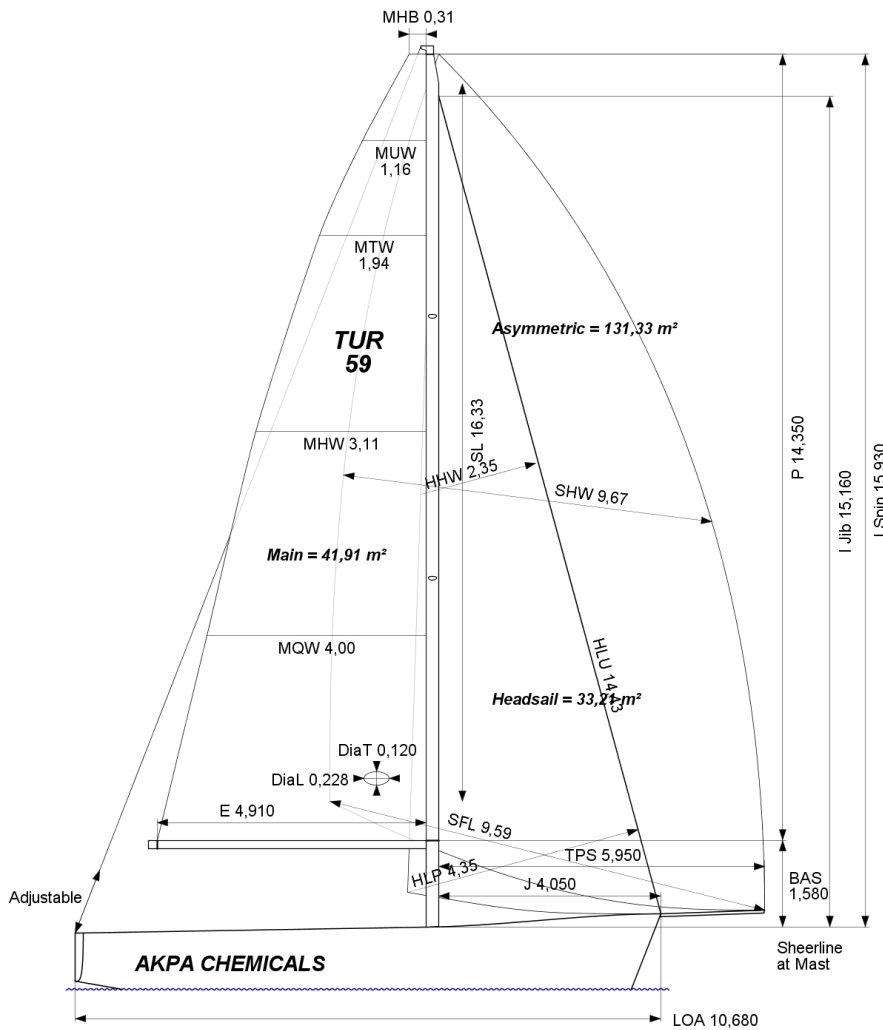
Class Division Length

CDL = 9.806

Stability (Estimated)

Limit Positive Stab.: **120.8°**
Stability Index: **116.6**

Owner



BOAT	GPH	HULL
Name AKPA CHEMICALS Sail Nr TUR-59	581.4	Data File TUR59 LOA 10.680m Offset File mat 35_KIL4 .off MB 3.756m Displacement 4,750kg Draft 2.189m
CLASS Class MAT 1070 Designer NIVELY-MURATET Builder M.A.T. Series 01/2019 Age Date 06/2019 Age Allowance 0.033%		IMS Division Cruiser/Racer Dynamic All. 0.000% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 9.821m VCGD -0.026m Sink 18.50kg/mm RL 9.790m VCGM -0.025m WS 23.69m² LSM0 9.487m Displacement/Length ratio 5.5630
PROPELLER Installation Strut PRD 0.418 Type Folding 2 blades PBW 0.103 PIPA 0.0033		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	566.3	636.2
Time on Time	1.0596	1.0609
Triple Number	Low Medium High	Low Medium High
Time on Distance	654.2 518.5 465.8	841.2 636.5 567.3
Time on Time	1.0318 1.3018 1.4491	0.8024 1.0605 1.1898

2020

ORC Club Certificate Appendix

BOAT			
Name	AKPA CHEMICALS	Certificate Number	061/20
Sail Nr	TUR-59	Issued On	01/10/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	966.0	798.3	707.0	674.9	662.9	658.0	646.9
52°	634.7	537.8	496.8	481.9	476.4	473.9	466.5
60°	600.9	519.0	486.1	470.0	462.8	459.2	452.2
75°	576.5	506.7	478.3	457.9	442.0	433.4	426.6
90°	580.6	496.7	474.0	456.6	435.4	415.5	392.9
110°	568.9	489.0	455.5	432.0	416.7	401.5	372.5
120°	582.3	495.0	459.6	427.2	398.9	381.3	349.1
135°	650.2	528.1	479.3	448.6	417.6	386.6	317.9
150°	769.2	617.0	526.7	483.5	460.5	438.4	377.2
Run VMG	888.1	712.4	608.2	557.1	529.0	490.7	435.5
Selected Courses							
Windward / Leeward	927.1	755.3	657.6	616.0	596.0	574.3	541.2
Circular Random	789.5	642.1	564.7	520.6	493.2	473.8	444.0
Coastal / Long Distance	923.2	710.7	597.5	538.8	506.2	476.9	424.9
Non Spinnaker	864.1	694.5	602.8	549.1	515.7	493.3	463.0

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	42.8°	41.3°	39.0°	38.1°	37.5°	37.1°	37.1°
Beat VMG	3.73	4.51	5.09	5.33	5.43	5.47	5.57
52°	5.67	6.69	7.25	7.47	7.56	7.60	7.72
60°	5.99	6.94	7.41	7.66	7.78	7.84	7.96
75°	6.24	7.10	7.53	7.86	8.14	8.31	8.44
90°	6.20	7.25	7.59	7.88	8.27	8.66	9.16
110°	6.33	7.36	7.90	8.33	8.64	8.97	9.66
120°	6.18	7.27	7.83	8.43	9.03	9.44	10.31
135°	5.54	6.82	7.51	8.03	8.62	9.31	11.33
150°	4.68	5.83	6.83	7.45	7.82	8.21	9.54
Run VMG	4.05	5.05	5.92	6.46	6.80	7.34	8.27
Gybe Angles	144.0°	147.0°	149.5°	151.5°	174.0°	177.0°	142.0°