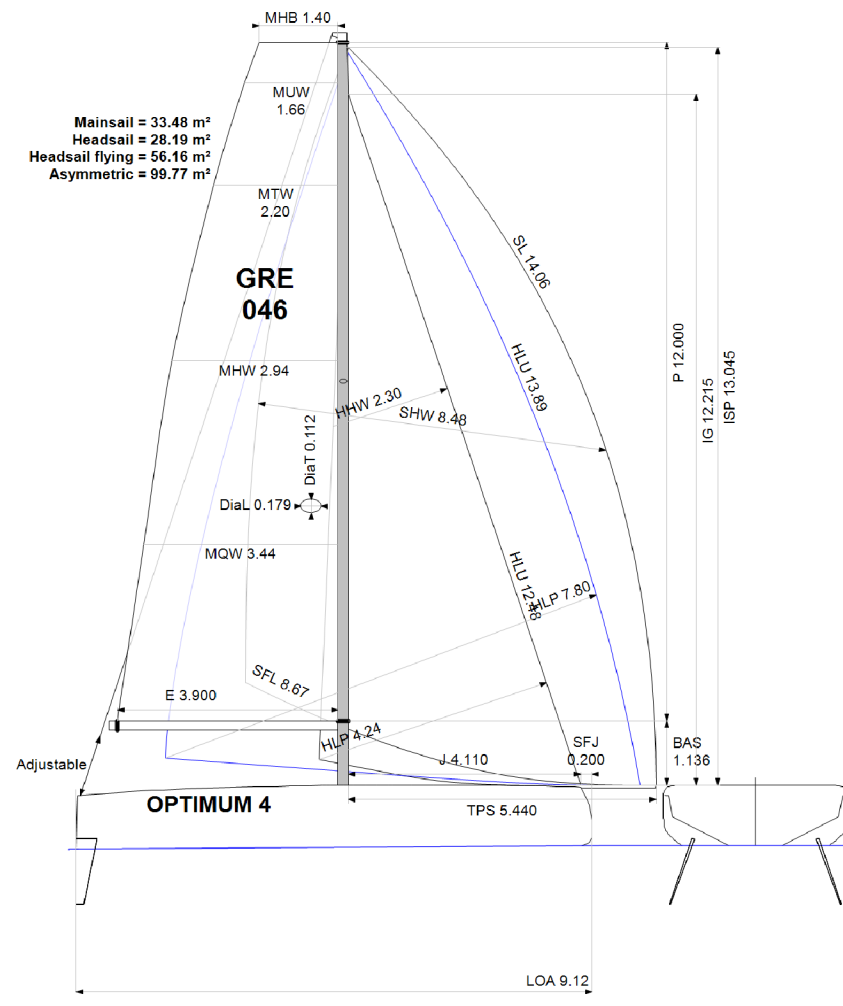




APH ToD: **527.8** CDL: **8.938**
APH ToT: **1.1367** CertNo: **02050**



BOAT	
Class	DEHLER 30 OD
Designer	DEHLER
Builder	01/2021
Age date	08/2019
Series date	DEHLER30.OD.OFF
Offset file	GR046
Data file	
HULL	
Length Overall	9.120 m
Maximum Beam	3.262 m
Draft	2.168 m
Displacement	2,749 kg
DLR	3.9751
IMS Division	Performance
Dynamic Allowance	0.000%
Age Allowance	0.195%
PROPELLER	
Installation	No Propeller
Type	N/A
Diameter	N/A
CREW	
Maximum weight	500 kg (declared)
Minimum weight	370 kg * when applied
Non Manual Power	No
Crew Arm Extension	
SAIL AREAS (m²)	
Mainsail	Measured 33.48 Rated 34.41
Headsail Luffed	28.19 28.19
Headsail Flying	56.16 56.16
Symmetric	99.77
Asymmetric	99.77
<i>(All asymmetric spinnakers with SHW/SFL > 85%)</i>	
STORM SAIL AREAS (m²)	
Trysail	8.19
Storm Jib	7.47
Heavy Weather Jib	20.15
SAIL LIMITS	
Headsails	5
Spinnakers	4
STABILITY	
Righting Moment	89.5 kg·m
Stability Index	118.1

Rated boat velocities in knots										
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt	
Beat Angles	43.0°	43.0°	40.3°	38.4°	37.8°	37.4°	37.2°	37.6°	39.3°	
Beat VMG	2.90	3.92	4.62	4.93	5.10	5.21	5.27	5.30	5.22	
52°	4.57	5.95	6.73	7.03	7.18	7.29	7.39	7.49	7.50	
60°	4.90	6.26	6.95	7.27	7.46	7.58	7.70	7.86	7.89	
75°	5.16	6.49	7.14	7.60	7.91	8.11	8.26	8.53	8.67	
90°	5.14	6.49	7.16	7.71	8.22	8.61	8.89	9.32	9.70	
110°	4.55	6.05	7.05	7.75	8.38	8.84	9.26	10.49	11.62	
120°	4.41	5.93	6.98	7.69	8.41	9.18	9.86	10.98	12.28	
135°	3.77	5.30	6.53	7.29	7.97	8.73	9.65	12.31	14.85	
150°	3.16	4.47	5.61	6.57	7.26	7.84	8.48	10.33	14.13	
Run VMG	2.73	3.87	4.86	5.69	6.32	6.80	7.34	8.95	12.24	
Gybe Angles	143.2°	143.2°	147.6°	149.6°	152.9°	151.0°	147.6°	142.4°	144.4°	

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Time Allowances in secs/NM										
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt	
Beat VMG	1243.1	919.5	780.0	729.9	705.4	691.3	683.2	679.6	690.0	
52°	788.6	605.5	534.8	511.9	501.5	493.6	487.2	480.6	479.9	
60°	734.6	575.3	518.1	495.1	482.5	474.7	467.3	458.2	456.1	
75°	697.7	554.4	504.5	473.5	454.9	443.6	435.7	422.2	415.1	
90°	700.0	554.7	502.8	467.1	437.9	418.1	405.1	386.4	371.1	
110°	791.7	595.4	510.3	464.7	429.8	407.1	388.6	343.3	309.8	
120°	815.4	607.2	515.5	468.2	428.1	392.2	365.0	327.9	293.1	
135°	955.0	679.3	551.7	493.9	451.6	412.2	373.2	292.4	242.4	
150°	1139.4	805.1	641.7	548.2	495.6	459.0	424.8	348.4	254.8	
Run VMG	1316.4	929.6	741.0	633.0	570.0	529.7	490.5	402.3	294.2	
Selected Courses										
Windward / Leeward	1279.1	924.6	760.5	681.5	637.7	610.5	586.8	540.9	492.1	
All purpose	957.1	710.4	601.0	548.1	515.6	492.9	474.1	438.8	408.0	

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	657.7	0.9123
All purpose	527.8	1.1367

Custom scoring options for Greece

Scoring Option	Time On Distance	Time On Time
Coastal/Long Distance	574.4	1.0446
Triple Number Coastal/Long Distance Low	655.7	0.9150
Triple Number Coastal/Long Distance Medium	527.9	1.1366
Triple Number Coastal/Long Distance High	465.5	1.2888
Triple Number Windward/Leeward Low	842.6	0.7121
Triple Number Windward/Leeward Medium	655.7	0.9150
Triple Number Windward/Leeward High	575.5	1.0425

Performance Curve	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Coastal/Long Distance	1359.1	925.1	717.3	615.7	551.9	511.8	476.6	416.8	385.4

AUS AUT BRA BUL CAN CYP DEN ESP EST FIN FRA GER GRE HUN ISR
JPN KOR LTU NED NOR POR RSA RUS SLO SUI SWE UKR USA

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HULL AND APPENDAGES (Lightship Trim)										Data in meters/kilograms (Metric)			
Class DEHLER 30 OD										LOA	9.120	VCCD	-0.341
Measurement 16/03/2022										Max. Beam	3.262	VCGM	-0.216
HIN										Draft	2.168	RM Rated (kg·m)	89.5
Plan review										Displacement	2,749	Limit of positive stability(°)	123.8
Hull construction Solid										Wetted area	19.05	Stability Index	118.1
Carbon rudder No										IMS L	8.913	Default crew weight	578
Light stanchions No										LSM0	8.842	Declared crew weight	500
Trim tab No										Acc. length	9.120		
										Sink (kg/mm)	15.30		

PROPELLER									
Propeller Type No Propeller									
Hydro generator No									
RIG									
Forestay tension	Art	P	12.000	E	3.900	Flying Headsail			
Inner stay	None Fitted	IG	12.215	J	4.110	Foretriangles			
Mast material	Carbon	ISP	13.045	BAS	1.136	Id	ISP	TPS	
Single headsail furler	No	MDT1	0.412	FSD	0.000	1	12.945	5.155	
Mainsail furler	No	MDL1	0.179	SFJ	0.200				
Articulated bowsprit	No	MDT2	0.105	SPL					
Non-circular rigging	No	MDL2	0.155	WPL					
Fiber rigging	No	TL	0.800	TPS	5.440				
Adjustable mast foot	No	MW	0.179	BD	0.170				
Running backstays	0	GO	0.179	MWT	67.80				
Checkstays	0			MCG	5.150				
Spreaders	1								
Rotating mast	No								

FLOTATION AND STABILITY											
Calculation method	Boom Inclining	SFFP	0.300	SAFP	9.050	W1	94.1	PD1	295.0	WD	3.520
Flotation Date	16/03/2022	FFM	0.703	FAM	0.907	W2	94.1	PD2	294.9	PLM	9000.00
Measurer	GRE-21	FF	0.702	FA	0.908	W3	94.1	PD3	288.1	GSA	1.0
		LCFcl	5.309	LCFsh	5.553	W4	94.1	PD4	288.3	RSA	1.0
		SG	1.0270	HBI	1.110	LCFD	6.200			RM	89.5

INVENTORY									
TANKS									
Id	Description	Sp.Wght	Capacity	Condition	LCG	VCG			
1	FUEL PVC hard (S)	Fuel	25	6	7.00	-0.05			
2	WATER PVC soft bag (S)		40	0	3.50				
3	HOLDING PVC hard (P)		30	0	4.90				
					Total deductible	4	7.00	-0.05	
OTHER ITEMS									
Id	Kind	Description	Weight	LCG	VCG				
3	Miscellaneous	CUSHIONS AFT CABIN							
2	Battery	1 x 90 Ah (P)		4.50					
1	Engine	NANNI 2.10							
					Total deductible				

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MAINSAIL												
Id	MHB	MUW	MTW	MHW	MQW	Area	Meas.Date	Comment				
1	1.40	1.66	2.20	2.94	3.44	33.48	06/03/2022					
HEADSAIL												
Id	HBB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying FT	Area	Meas.Date	Comment
CDQ	0.03	1.08	2.12	4.14	6.06	7.80	13.89	No	Yes 1	56.16	24/08/2022	Roller
1	0.13	0.74	1.34	2.30	3.27	4.24	12.48	Yes	No	28.19	06/03/2022	
3	0.14	0.75	1.35	2.31	3.25	4.19	12.50	Yes	No	28.15	04/10/2024	
2	0.05	0.41	0.78	1.55	2.35	3.11	9.16	No	Inner	14.32	06/03/2022	
ASYMMETRIC SPINNAKER												
Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Meas.Date	Comment			
A2	15.12	12.99	14.06	8.46	8.67	98%	99.77	06/03/2022				
A2.2	15.04	12.96	14.00	8.45	8.66	98%	99.07	03/10/2024				
A5	14.54	12.60	13.57	8.81	7.87	87%	79.41	06/03/2022				

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