

ORC Club

"VPP Inside"

Offshore Racing Congress
Ipswich IP6 9HG, UK

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Sail No.: **28**

Certificate No.: **6083C**

Rating Certificate -- 2006

Not Valid Beyond 06.12.31

"NOCTILUCA"

Scoring Selections (GPH= 695.2)

A. Performance Line OFFSHORE:



Corrected Time = (0.692 x Elapsed Time) - (77.7 x Distance)

B. Time-on-distance (GPH):



Corrected Time = Elapsed Time - (695.2 x Distance)

C. Time-on-Time: (ILC)



Corrected Time = 0.8682 x Elapsed Time

ORC Rating Authority

Owner

Issued 12/JUN/2006, 08:30:33 by:

"I certify that I understand my responsibilities under the Club Rule"

SWEDISH RATING OFFICE

Svenska Seglarförbundet

af Pontins väg 6

115 21 Stockholm

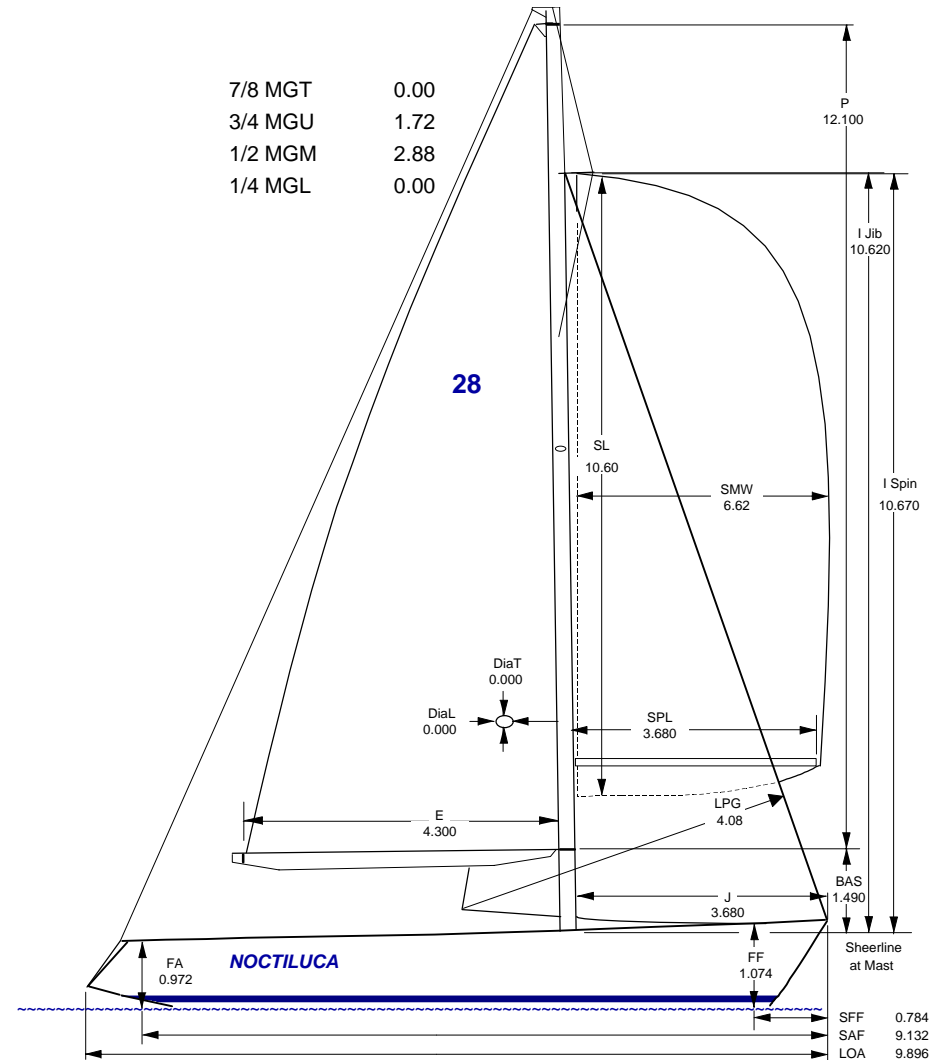
Ref: 6083C/S-F/L0017

Signed _____

PÄR LINDFORSS

GOTTSUNDAVÄGEN 26

184 922 ÅKERSBERGA



Rated Data as of 12/JUN/2006 (meters/kilos)

Rig (spreaders, etc.) as diagrammed above.



Class:	ALBIN NOVA	Displacement:	4400	Keel/CB:	FIXED KEEL
Designer:	PETER NORLIN	Draft:	1.706	RudConst:	STANDARD
Builder:	ALBIN MARIN	MaxBeam:	3.171	AgeDate:	1/1982
PropInst:	EXP/FLD	FwdAccom:	YES	SeriesDate:	1/1982
PRD:	0.410	AccomLgth:	9.896	CrewWt:	540
StabIndex:	N/A	BoomCnst:	NOFIBER	Division:	C/R DA=0.96%
LPS:	See SpecRegs 3.02.1	MastMatl:	NOCARB	HullCnst:	CORED

INVALID IMS CERT FOR CLUB BOAT TO JANUARY 2006
 Based on: CLUB DISPL RM_Est RM% Pro (Metric) Offshore Racing Congress
 ---GPH--- Chelmsford, England
 NOT VALID AFTER 05.12.31 | 695.2 | Copyright 2006

-- YACHT DESCRIPTION ----- RATING OFFICE: _____
 Name: NOCTILUCA Issued: SWEDISH RATING OFFICE
 Sail No: 28 16/JUN/06 Svenska Seglarf"rbundet
 Class: ALBIN NOVA Measured: af Pontins v„g 6
 LOA: 9.896m Beam(MB) 3.171m 00/000/00 115 21 Stockholm
 Designer: PETER NORLIN
 Builder: ALBIN MARIN Revalidation Authority: S.S.F.
 Rig: FRACTIONAL SLOOP 110% Jib Measurer: ORC-CLUB
 Keel/CB: FIXED KEEL
 PropInst: EXPOSED FOLDING "I CERTIFY THAT I UNDERSTAND MY
 FwdAccom: YES Spin: SYMMETRIC RESPONSIBILITIES UNDER THE IMS."
 HullCnst: HVYCORE RudCnst: STNDRD
 Forestay: ADJST AFT BoomMtl: HEAVY OWNER:.....
 Spreadrs: 1 Set InrFsty: NONE PZR LINDFORSS
 Runners: NONE Jumpers: YES GOTTSUNDAVÄGEN 26
 Dates: AGE:1/1982 SERIES : 1/1982 184 922 ÅKERSBERGA
 COMMENTS-----

----- LIMITS AND REGULATIONS -----
 Limit of Positive Stability: MEETS REQ Measurement Inventory: NOT REQ'D
 Minimum Displacem't 2220kg: MEETS REQ Accom Lgth: RACE= 9.9 C/R= 9.9
 Maximum Crew Weight: 540 kg. Accom Certificate: C/R DA= 0.96%
 Stability Index: 120.4 Plan Approval: NONE FILED
 C/R HeavyItems Pitch Adjustm't 0.00000 Anchor(s) Weight: 0 Dist: 0.00
 Applied Age Allowance: 1.61%

NOTE TO OWNER: The range available to revise crew weight is 342- 631 kg.
 ----- TIME ALLOWANCES IN SEC/MI BY TRUE WIND VELOCITY & ANGLE -----
 (NOT WIND-AVERAGED)

Wind Velocity:	6kt	8kt	10kt	12kt	14kt	16kt	20kt	CHECKSUM
BEAT ANGLES:	44.2ø	43.4ø	41.5ø	39.6ø	38.4ø	37.6ø	37.1ø	(281.8)
BEAT VMG:	1188.2	970.1	872.1	825.2	796.5	778.2	761.1	(6191.4)
	52ø:	761.1	633.0	588.7	568.2	554.8	545.7	536.5 (4188.0)
R	60ø:	707.7	603.4	565.5	543.9	532.7	525.6	517.9 (3996.7)
E	75ø:	664.8	577.9	539.9	522.1	509.7	502.6	493.3 (3810.3)
A	90ø:	636.3	561.3	525.5	508.1	498.3	491.2	473.9 (3694.6)
C	110ø:	663.1	576.4	533.6	508.6	489.5	472.2	451.1 (3694.5)
H	120ø:	712.6	596.1	547.5	516.7	495.5	474.3	442.1 (3784.8)
	135ø:	827.9	657.0	581.4	539.8	513.2	492.7	451.3 (4063.3)
	150ø:	988.3	770.7	642.3	578.9	539.8	513.9	473.1 (4507.0)
	RUN VMG:	1141.2	889.9	740.0	644.9	587.0	548.2	501.1 (5052.3)
GYBE ANGLES:	144.3ø	148.3ø	153.0ø	165.9ø	173.6ø	175.0ø	177.1ø	(1137.2)

NOTE: To convert any time allowance above to speed in knots: Kt = 3600/TA

----- TIME ALLOWANCES FOR SELECTED COURSES (AFTER WIND-AVERAGING) -----

Wnd/Lwd VMG	1185.7	946.2	818.5	745.0	700.0	670.6	637.6	(5703.6)
CircularRandom	956.2	772.1	674.4	618.2	584.1	561.7	533.2	(4699.9)
Ocean for PCS	1083.0	849.6	718.1	637.0	583.4	546.0	494.6	(4911.7)
Non-Spinnaker	1031.2	823.5	711.0	645.2	604.8	578.7	547.0	(4941.4)

----- SIMPLIFIED SCORING OPTIONS -----

	Time-on-Distance		Time-on-Time		Performance Line		
	(sec/mi)		TMF		PLT	PLD	
OFFSHORE	695.2 (=GPH)		0.8631 (=600/GPH)		0.692	77.7 (Ocean)	
INSHORE	777.5 (=ILC)		0.8682 (=675/ILC)		0.942	329.5 (Olympic)	
Performance Line Corrected Time = (PLT x Elapsed Time)-(PLD x Distance)							
----- TRI-NUMBER TMFS BY WIND RANGE -----							
	WINDWARD		Low		Medium		High
/LEEWARD	0.6445	0.8833	1.0253	3	CIRCULAR	Low	Medium High
				3	RANDOM	0.8500	1.0958 1.2240

IMS AMENDED TO JANUARY 2006 VPP: 16/JUN/06 12:42:02
 Cert No 6083C 11 6083C.DAT 12/JUN/06 08:31:28
 OFF Meas'd: 00/00/00 L0017.BOF 11/MAR/92 18:23:32

----- CENTERBOARD AND DRAFT -----
 ECM 0.000 CBRC 0.000 CBMC 0.000 CBTC 0.000
 WCBA 0.0 CBDA 0.000 KCDA 0.000 ECE 0.000
 WCBB 0.0 CBDB 0.000 ENDPLATE ADJ (KEDA) 0.000

----- PROPELLER AND INSTALLATION -----
 PRD 0.410 PBW 0.000 PHD 0.062 PHL 0.015 ESL 0.615
 ST1 0.021 ST2 0.082 ST3 0.000 ST4 0.053 ST5 0.215
 PSA 17.000 PSD 0.026 PIPA 0.0033

----- FLOTATION DATA -----
 FFPS 1.105 AFPS 0.916 SFFP 0.784 SAFF 9.132
 FFM 0.000 FAM 0.000 FFPV 0.000 AFPV 0.000
 FF 1.074 FA 0.972 RM 72.0 SG 0.000

----- STABILITY DATA -----
 CLUB righting moment was generated using
 a fit to fleet data as: 72.0

SMB 5.915
 RM2 74.6 RM20 69.9 RM40 62.7 RM60 47.1
 RM90 21.8 WBV 0.0 CREW ARM (CRA) 1.554
 CALCULATED LIMIT OF POSITIVE STABILITY: 119.4 DEGREES
 RATIO STABILITY CURVE AREAS, POSITIVE/NEGATIVE 2.827

----- HYDROSTATICS ----- MEASUREMENT TRIM--SAILING TRIM--
 KEEL DRAFT (DHK0) 1.706 (DHKA) 1.752
 2ND MOMENT LENGTH (LSM0) 8.444 (LSM1) 8.662
 DISPLACEMENT (WEIGHT) (DSPM) 4400 (DSPS) 5010
 WETTED SURFACE (WSM) 20.82 (WSS) 22.13
 VCG FROM OFFSETS DATUM (For CLUB RM) (VCGD) -0.048
 VCG FROM MEASUREMENT TRIM WATERLINE (VCGM) -0.031
 INTEGRATED BEAM ATTENUATED WITH DEPTH (B) 2.497
 MAXIMUM SECTION AREA (AMS1) 1.170
 BEAM/DEPTH RATIO (BTR) 3.756
 EFFECTIVE DRAFT (D) 1.484
 2ø HEEL (LSM2) 8.661 25ø HEEL (LSM3) 8.466
 SUNK (LSM4) 9.599 AVG LENGTH (L) 8.599
 TRIM: 1mm/5.697m-kg SINK: 1mm/14.290kg

SAIL AREAS: MAIN+FORE+MIZZEN: 52.13 MAIN: 32.59
 GENOA: 22.93 SYM: 66.76 ASYM: 0.00 MIZ'N: 0.00

----- FORETRIANGLE ----- MAIN & SPARS -----
 IG 10.620 J 3.680 HB 0.000 TH NO
 MW 0.000 FSP 0.000 MGT 0.00 TL 0.000
 GO 0.000 LPG 4.08 MGU 1.72 MDT1 0.000
 ISP 10.670 LP 4.08 MGM 2.88 MDL1 0.000
 IM 10.620 JL 0.00 MGL 0.00 MDT2 0.000
 HBI 0.949 JR 0.00 MSW 0.0 MDL2 0.000
 SFJ 0.200 P 12.100 MWT 0.0
 SPL 3.680 TPS 0.000 E 4.300 MCG 0.000
 SL 10.60 ASL EC 4.523 BD 0.000
 SMW 6.62 AMG BAS 1.490 CPW 0.000
 SF ASF SPS 0.000 BAL 0.000

----- MIZZEN -----
 IY 0.000 PY 0.000 HBY 0.000 TLY 0.000
 EB 0.000 EY 0.000 MGTY 0.000 MDT1Y 0.000
 YSD 0.00 ECY 0.000 MGUY 0.000 MDL1Y 0.000
 YSF 0.00 BASY 0.000 MGYM 0.000 MDT2Y 0.000
 YSMG 0.00 BALLY 0.000 MGLY 0.000 MDL2Y 0.000
 HBIY 0.000 BDY 0.000