

DANSK SEJLUNION

DANISH SAILING ASSOCIATION
Ildrættens Hus · DK 2605 Brøndby



IMS RATING CERTIFICATE No. 2096
Based on: FULL MEASUREMENT (Metric)

IMS AMENDED TO JANUARY 2001
fshore Racing Council
Southampton, England
Copyright 2001

IMS AMENDED TO JANUARY 2001 VPP: 26/APR/01 15:34:58
Cert No 2096 GER5060.DAT 26/APR/01 15:00:34
OFF Meas'd: 30/AUG/99 IMX40.OFF 13/MAY/00 12:48:50

NOT VALID AFTER 31/DEC/01

GPH

597.0

YACHT DESCRIPTION

Name:
Sail No:
Class: IMX 40
LOA: 12.100m Beam(MB) 3.773m
Designer: NIELS JEPPESEN
Builder: X-YACHTS
Carb Rig: FRACTIONAL SLOOP 150% Jib
Keel/CB: FIXED KEEL
Propinst: STRUT DRIVE FOLDING
FwdAccom: YES SPIN: SYMMETRIC
HullCnst: HVCORE RudCnst: STNDRD
Forestay: ADJUST AFT BoomMtl: LIGHT
Spreadrs: 3 Sets InrFsty: NONE
Runners: NONE Jumpers: NONE
Dates: AGE:5/2000 SERIES: 5/2000
COMMENTS:

RATING OFFICE:

Issued: FLEMMING NIELSEN
26/APR/01 DANISH SAILING ASS.
Measured: Tel: +45 4326 2185
06/APR/01 Fax: +45 4326 2191

Revalidation Authority: D.S.V.
Measurer: ESSEN SKOVLUND

"I CERTIFY THAT I UNDERSTAND MY
RESPONSIBILITIES UNDER THE IMS."

OWNER:.....

LIMITS AND REGULATIONS

Limit of Positive Stability: MEETS REQ Measurement Inventory: 06/APR/01
Minimum Displacem't 3750kg; MEETS REQ Accommodation Length: 12.100m
Maximum Crew Weight: 847 kg. Accom Certificate: C/R DA= 0.00%
Stability Index: 121.7 Plan Approval: NONE FILED
C/R HeavyItems Pitch Adjustm't 0.00000 Anchor(s) Weight: 0 Dist: 0.00
Optional Age Allowance: 0.05%

NOTE TO OWNER: The range available to revise crew weight is 497- 917 kg.

TIME ALLOWANCES IN SEC/MI BY TRUE WIND VELOCITY & ANGLE

Wind Velocity:	6kt	8kt	10kt	12kt	14kt	16kt	20kt	CHECKSUM
BEAT ANGLES:	43.7°	42.7°	41.3°	40.0°	39.1°	38.7°	38.7°	(284.2)
BEAT VMG:	969.8	827.2	754.5	715.0	692.2	679.3	672.9	(5310.9)
52°:	629.1	541.4	507.3	489.9	479.7	473.7	469.2	(3590.3)
R 60°:	589.1	513.5	485.5	471.0	462.1	456.5	451.3	(3429.0)
E 75°:	557.5	492.8	463.9	448.6	439.5	433.2	425.6	(3261.1)
A 90°:	557.1	485.7	458.5	441.9	427.3	416.5	405.0	(3192.0)
C 110°:	565.8	488.9	454.6	432.4	416.6	405.6	389.6	(3153.5)
H 120°:	602.0	507.3	464.4	437.5	416.6	399.6	373.6	(3201.0)
135°:	700.2	566.6	497.7	460.8	434.5	412.4	374.3	(3446.5)
150°:	844.4	673.0	569.0	504.9	467.5	440.8	398.2	(3897.8)
RUN VMG:	975.0	777.1	657.0	574.1	517.0	479.3	429.7	(4409.2)
GYBE ANGLES:	140.9°	144.5°	148.3°	161.5°	166.9°	170.5°	172.5°	(1105.1)

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

TIME ALLOWANCES FOR SELECTED COURSES

Wnd/Lwd VMG	1058.8	849.8	734.3	664.3	619.3	589.3	553.3	(5069.1)
Ocean for PCS	935.9	734.0	620.0	549.3	502.3	469.1	423.9	(4234.5)
Non-Spinnaker	894.8	718.5	622.3	565.1	529.1	505.3	476.7	(4311.8)

SIMPLIFIED SCORING OPTIONS

	Time-on-Distance (sec/mi)	Time-on-Time TMP	Performance Line PLT PLD
OFFSHORE	597.0 (=GPH)	1.0050 (=600/GPH)	0.793 71.9 (Ocean)
INSHORE	668.1 (=ILC)	1.0103 (=675/ILC)	0.947 249.7 (Olympic)

Performance Line Corrected Time = (PLT x Elapsed Time) - (PLD x Distance)

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 0.430 ST1 0.049 ST4 0.098 ST5 0.274 EDL 1.600

PIPA 0.0045

FLOTATION DATA

FFPS 1.363 AFPS 1.131 SFFP 0.405 SAFF 11.420
FFM 1.358 FAM 1.119 FFPV 0.000 AFPV 0.000
FF 1.367 FA 1.125 SG 1.002

INCLINING TESTS

W1 25.000 PD1 60.000 PLM 2000.000 PL 1995.881
W2 50.000 PD2 120.000 GSA 13.000 RSA 6300.0
W3 75.000 PD3 180.000 SMB 7.930 WD 11.910
W4 100.000 PD4 240.000 RM 173.3 RMC 173.3
RM2 182.1 RM20 162.4 RM40 128.8 RM60 90.6
RM90 39.6 CREW ARM (CRA) 1.506

CALCULATED LIMIT OF POSITIVE STABILITY: 119.7 DEGREES
RATIO STABILITY CURVE AREAS, POSITIVE/NEGATIVE 3.033

HYDROSTATICS MEASUREMENT TRIM—SAILING TRIM—

KEEL DRAFT (DHK0) 2.423 (DHKA) 2.466
2ND MOMENT LENGTH (LSM0) 10.708 (LSM1) 10.906
DISPLACEMENT (WEIGHT) (DSFM) 6829 (DSPS) 7863
WETTED SURFACE (WSM) 29.65 (WSS) 31.30
VCG FROM OFFSETS DATUM (For CLUB RM) (VCGD) 0.005
VCG FROM MEASUREMENT TRIM WATERLINE (VCGM) 0.004
INTEGRATED BEAM ATTENUATED WITH DEPTH (B) 3.199
MAXIMUM SECTION AREA (AMS1) 1.362
BEAM/DEPTH RATIO (BTR) 4.769
EFFECTIVE DRAFT (D) 2.156
2° HEEL (LSM2) 10.908 25° HEEL (LSM3) 11.034
SUNK (LSM4) 12.383 AVG LENGTH (L) 10.922
TRIM: 1mm/11.312m-kg SINK: 1mm/22.126kg

SAIL AREA: MAIN + FORETRIANGLE + MIZZEN (SA) 85.53
MAIN: 49.41 SPIN: 124.26 GENOA: 56.38 MIZ'N: 0.00

FORETRIANGLE MAIN & SPARS

IG 16.009 SPL 4.500 HB 0.160 TL 0.870
MW 0.243 J 4.500 MGT 1.111 MDT1 0.117
GO 0.256 LPG 6.69 MGU 2.03 MDL1 0.243
ISP 16.044 FSP 0.072 MGM 3.53 MDT2 0.099
IM 16.055 LP 6.76 MGL 4.60 MDL2 0.184
HBI 1.217 SPJ 0.000 MSW 21.7 MWT 184.9
MSL 15.83 MSP 8.10 P 15.205 MCG 5.036
SL 15.85 SMW 8.42 E 5.500 BD 0.270
SPS 3.080 SP 8.10 EC 5.500 CPW 0.000
TH NO JR 0.00 BAS 1.804 BAL 0.152

MIZZEN

IY 0.000 PY 0.000 HBY 0.000 TLY 0.000
EB 0.000 EY 0.000 MGY 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 BALY 0.000 MGLY 0.000 MDL2Y 0.000
HBIY 0.000 BDY 0.000