

AMS AMENDED JANUARY 1989
 YACHT: SHC
 SAIL : 017
 CLASS: HOLIDAY 34
 LOA : 10.400

RATING CERTIFICATE 10596,
 BASED ON FULL MEASUREMENT
 DESIGNER : A.LAVRANDOS
 BUILDER : JOHN ROBERTSON YTS
 RIG : MASTHEAD SLOOP
 KEEL : KEEL ENDPLATE
 PROPELLER: FEATHERING
 INSTALLED: EXPOSED

CERT 10596, SAIL 017
 YACHT: SHC

ISSUED: 25/ 4/90

I CERTIFY THAT I UNDERSTAND MY
 RESPONSIBILITIES UNDER THE IMS.

OWNER:

REVAL AUTHORITY: C.A.S.A.
 NOT VALID AFTER: 31 JULY 1990
 ISSUED: 25/ 4/90
 BY:-

D. BRUNNEN
 18 BEACH CROSSLAND



ARTHUR J BOON CHIEF MEAS
 CRUISING ASSOCIATION
 OF SOUTH AFRICA
 P.O. BOX 5036 CTOWN 8000

MEASUREMENT INVENTORY TO FORM PAGE 3
 FLOTATION DATE 23/ 4/90
 SPECIFIC GRAVITY 1.0250

CENTERBOARD		COMMENTS	
KCDA .000	WCBA .0		
ECM .000	CBDA .000	DIGITISED HULL LINES	
CBRC .000	WCBB .0	VALID IN SOUTH AFRICA ONLY	
CBMC .000	CBDB .000		
CBTC .000			

FREEBOARDS		PROP INSTALLATION			
FF .167	FFPS 1.259	PSA 17.000	PHD1 .000	PHD2 .045	APH .000
FA .983	AFPS 1.091	PSL .905	PSD .025	SHD .050	APT .000
SFFP .821	SAFP 9.841	PHL .000	SHL .102	PRD .390	APB .000

FORETRIANGLE		MAINSAIL		MAST	
IM 12.341	SPL 3.700	P 10.500	BL1 .840	MDT1 .110	
J 3.580	SPS 3.465	E 3.970	BL2 3.340	MDL1 .155	
LPB 5.055	SL 11.970	BAS 1.485	BL3 1.570	MDT2 .110	
LPIS .000	SMW 6.695	BAL .150	BL4 2.260	MDL2 .155	
FSP .060	HBS .000	BD .115	BL5 2.870	TL .000	
LP 5.115	BATX 2.870	HB .150	BLP .000	WMAIN 14.5	
HBI 1.048	IG 12.300	MW .155	MGU 1.500	PC 10.500	
SFJ .000	ISP 12.300	BD .167	MGM 2.315	EC 3.970	

MIZZEN					
IY .000	PY .000	BY1 .000	MDT1Y .000	HYB .000	
EB .000	EY .000	BY2 .000	MDL1Y .000	BLPY .000	
YSD .000	BADY .000	BY3 .000	MDT2Y .000	HBIY .000	
YSF .000	BALY .000	BY4 .000	MDL2Y .000	PYC .000	
YSMS .000	BDY .000	BY5 .000	TLY .000	EYC .000	

--- TIME ALLOWANCES ---
 IN SECONDS PER MILE :

GENERAL PURPOSE (LINEAR RANDOM 10)	TRUE WINDWD/ WIND	OLYMPIC LEEWARD (6-LEG)	CIRCULAR RANDOM	LINEAR RANDOM	NON- SPIN- NAKER
8 KT:	959.9	898.4	721.9	688.3	780.3
10 KT:	805.6	759.9	624.0	603.1	670.7
12 KT:	714.3	687.6	570.0	555.0	608.5
14 KT:	659.6	645.4	537.8	524.8	567.3
16 KT:	626.5	618.3	516.7	504.0	538.6
20 KT:	588.6	586.0	489.3	474.9	504.6

3.1 SEC/MI

---INCLINING TEST---

	WD	PD1	RM2	PD2	RM2	PD3	RM40	PD4	RM60	PD5	RM90
W1	20.0	9.900	49.0	107.1							
W2	36.0	1510.000	93.0	95.1							
W3	52.0	56.000	129.0	75.4							
W4	68.0	6600.000	171.0	52.2							
RM	104.	103.5	1497.3	23.0							

LIMIT OF POSITIVE STABILITY: 118 DEGREES

---CALCULATED STABILITY---
 HEEL IN DEGREES: 25 60 90 120 150 165
 RIGHTING ARM : .418 .582 .385 -.028 -.374 -.395
 RATIO OF STABILITY CURVE AREAS, POSITIVE/NEGATIVE = 2.569

---MEASUREMENT TRIM---
 KEEL DRAFT (DHKO) 1.602 MAXIMUM BEAM (MB) 3.316
 ENDPLATE ADJ (KEDA) .329 2ND MOMENT LGTH (LSMO) 8.967
 DISPLACEMENT (DISP) 4489. WETTED SURFACE (WS) 24.18
 SAIL AREA (SA) 42 PROP PROJ AREA (PIPA) .003

---SAILING TRIM (CREW & GEAR ABOARD)---
 SECT AREA @ MAX (AMS1) 1.140 RATED BEAM (B) 2.792
 BEAM DEPTH (STR) 4.584 SINK FORWARD (SKF) .013
 KEEL DRAFT (DHKA) 1.651 SINK AFT (SKA) .081
 CENTERBOARD EXT (ECMA) .000 WETTED SURF (WS) 25.9
 EFFECTIVE DRAFT (D) 1.720 DISPLACEMENT (DISP) 5380.
 EFFECTIVE CB EXT (ECE) .000 CREW RT'G ARM (CRA) 1.222

2ND MOMENT LENGTHS: 0 DEG HEEL (LSM1) 9.474
 2 DEG HEEL (LSM2) 9.476
 AVG LENGTH (L) 9.382 25 DEG HEEL (LSM3) 9.371
 SUNK CONDITION (LSM4) 10.424

OPTIONAL REGULATIONS:
 MINIMUM DISPLACEMENT IN MEASUREMENT TRIM: 3222 KGS.
 MAXIMUM CREW: WEIGHT LIMIT= 675 KGS. NUMBER LIMIT= 8

---SPEED AS A FUNCTION OF SAILING CONDITION---

OPTIMUM BEAT		OPTIMUM RUN					
VTW	BTW	V	VMS	HEEL	BTW	V	VMS
8	45	5.085	3.598	6	145	4.795	3.916
10	44	5.885	4.217	13	147	5.643	4.752
12	42	6.195	4.596	19	161	5.914	5.578
14	40	6.344	4.826	22	167	6.441	6.280
16	39	6.439	4.971	24	172	6.879	6.808
20	39	6.545	5.104	27	173	7.678	7.629

REACH		REACH		REACH		RUN	
VTW	BTW = 80	V	VMS	HEEL	BTW = 135	V	BTW=180
8	6.618	10	6.534	4	5.398	2	3.715
10	7.137	18	7.144	6	6.399	2	4.585
12	7.428	25	7.601	11	6.993	3	5.409
14	7.674	15	7.991	15	7.452	3	6.186
16	7.938	20	8.317	20	7.879	4	6.765
20	8.266	29	8.770	30	8.705	7	7.596

MEASURED ON : 23/ 4/90 BY:- M.PAYNE
 OFFSETS DATE: 4/12/89 FILE: H034L.OFF
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