IMS RATING CERTIFICATE No. 99913
Based on: CLUB VCG (Metric) ---GPH--. Offshore Racing Congress
Chelmsford, England. --------Copyright 2006--------

NOT VALID AFTER 00/00: 640.0

-- YACHT DESCRIPTION --

Name: HANSE 370

Sail No: HA370-1

Class: HANSE 370 105% Fock

LOA: 11.28m Beam (MB) 3.760m

Designer: JVC

Builder: YC GREIFSWALD

Revalidation Authority: D.S.V.

Rig: WOODEN TRIDENT SLOOP 105% Jib

Keel/CB: FIXED KEEL

PropInst: Pre-1988 STRUT DRIVE

FwdAccom: YES Spin: SYMMETRIC

 HullCnst: HVYCORE RudCnst: STNDRD

Forestay: ADJUST AFT Boom Mt1: HEAVY

Spreads: 2 Sets InrFsty: NONE

Runners: NONE Jumpers: NONE

Dates: AGE:0/2005 SERIES : 0/2005

COMMENTS: 105% FOCK

NOTE TO OWNER: The range available to revise crew weight is 512-946 kg.

--- LIMITS AND REGULATIONS ---

Maximum Crew Weight: 550 kg

Accom Certificate: C/R DA - 1.12% (107.5 kg)

Stability Index: 115.0 Plan Approval: NONE FILED

C/R HeavyItems Pitch Adjustmt' 0.00000

Anchor(s) [kg]: 0: D0

Applied Age Allowance: 0.05%

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

Wind Velocity: 6kt 8kt 10kt 12kt 14kt 16kt 20kt

BEAT ANGLES: 45.5 43.8 44.5 42.4 41.1 40.5 40.4

BEAT (%) 1159.4 950.5 830.8 775.2 745.5 728.0 715.5

PLT: 3642kg. MEETS REG Measurement Inventory: 03/MAY/00

PLD: 11.3

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

Wnd/Lwd VMG: 112.1 896.8 576.9 694.8 649.7 620.0 588.2

CircularRandom: 893.6 716.4 620.1 563.7 528.7 505.8 477.5

Ocean for PCS: 1008.2 785.6 658.7 578.9 525.3 486.9 433.6

Non-Spinnaker: 797.3 766.4 597.6 555.3 527.6 494.0 459.2

--- SIMPLIFIED SCORING OPTIONS ---

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

Time-on-Distance Time-on-Time Performance Line

<table>
<thead>
<tr>
<th>(sec/mi)</th>
<th>TMF</th>
<th>PLT</th>
<th>PLD</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFFSHORE</td>
<td>640.0</td>
<td>0.9375</td>
<td>600/GPH</td>
</tr>
<tr>
<td>0.703</td>
<td>42.3</td>
<td>(Ocean)</td>
<td></td>
</tr>
<tr>
<td>0.9249</td>
<td>254.3</td>
<td>(Olympic)</td>
<td></td>
</tr>
<tr>
<td>Performance Line Corrected Time = (PLT x Elapsed Time) - (PLD x Distance)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

--- TRI-NUMBER TMPS BY WIND RANGE ---

Wind Speed: Low Medium High

Time-on-Distance Time-on-Time Performance Line

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--- HYDROSTATICS ---

--- MEASUREMENT TRIM ---

KEEL DRAFT (DHKO) 1.925 (DHKA) 1.960

2ND MOMENT LENGTH (LSMO) 10.557 (LSLM) 10.766

DRAFT (WEIGHT) (DPSM) 728.0 (ACGM) 1904

WETTED SURFACE (WSM) 30.47 (WSS) 31.84

--- FLOTATION DATA ---

FPS 1.141 SPP 1.148 SPP 0.300 SAPF 11.210

FFM 1.390 FAM 1.120 FPFP 0.000 APFP 0.000

RM 1.392 FA 1.121 RMS 19014.8 0.230

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**Offshore Racing Congress:** Chelmsford, England  
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<thead>
<tr>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>631.9</td>
</tr>
</tbody>
</table>

**-- YACHT DESCRIPTION --**

**Name:** HANSE 370  
**Sail No:** HA370-2  
**Class:** HANSE 370 140%  
**LOA:** 11.280m  
**Beam(MB):** 3.760m  
**Builder:** YC GREIFS WALD  
**Designer:** JVC  
**Rig:** FRACTIONAL SLOOP 143% Jib  
**Builder/Owner:** YC GREIFS WALD  
**Rig/Prop Inst:** Pre-1988 STRUT DRIVE  
**Twiom:** ADJST AFT  
**Forestay:** ADJST AFT  
**Forefoot:** HEAVY  
**Hull Cnst:** HVYCORE  
**Rudder Cnst:** STNDRD  
**Spinn:** SYMMETRIC  
**Fwd Accom:** YES  
**Spin:** SYMMETRIC  
**Builder:** YC GREIFS WALD  
**Designer:** JVC  
**Sail No:** HA370-2  
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**Forefoot:** HEAVY  
**Hull Cnst:** HVYCORE  
**Rudder Cnst:** STNDRD  
**Spinn:** SYMMETRIC  
**Fwd Accom:** YES  
**Spin:** SYMMETRIC  
**Converter:** KALL  
**Arch:** 0.00000  
**BBW:** 0.000  
**CREW ARM (CRA):** 1.856  
**FF:** 1.392  
**FA:** 1.121  
**RMSt:** 191.4  
**SG:** 1.020  
**FFPS:** 1.414  
**AFPS:** 1.148  
**SFFP:** 0.300  
**SAFP:** 11.210  

**-- LIMITS AND REGULATIONS --**

**Limit of Positive Stability:** MEETS REQ  
**Measurement Inventory:** 03/MAY/00  
**CALCULATED LIMIT OF POSITIVE STABILITY:** 112.2 DEGREES  

**Maximum Displacement:** 3642kg: MEETS REQ  
**Accom Lgth:** RACE= 11.3 C/R= 11.3  
**Maximum Crew Weight:** 550 kg  
**Stability Index:** 115.0  
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**NOTE TO OWNER:** The range available to revise crew weight is 512-946 kg.

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

<table>
<thead>
<tr>
<th>Wind Velocity:</th>
<th>6kt</th>
<th>8kt</th>
<th>10kt</th>
<th>12kt</th>
<th>14kt</th>
<th>16kt</th>
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</thead>
<tbody>
<tr>
<td>BEAT ANGLES:</td>
<td>45.6</td>
<td>45.0</td>
<td>44.2</td>
<td>42.0</td>
<td>40.8</td>
<td>40.2</td>
</tr>
<tr>
<td>BEAT (°):</td>
<td>110.1</td>
<td>113.8</td>
<td>112.6</td>
<td>763.5</td>
<td>735.3</td>
<td>718.7</td>
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<tr>
<td>52:</td>
<td>700.7</td>
<td>759.4</td>
<td>530.7</td>
<td>507.4</td>
<td>497.2</td>
<td>483.6</td>
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<tr>
<td>R 60:</td>
<td>648.7</td>
<td>544.8</td>
<td>501.6</td>
<td>479.0</td>
<td>467.7</td>
<td>461.2</td>
</tr>
<tr>
<td>E 75:</td>
<td>604.7</td>
<td>520.2</td>
<td>478.3</td>
<td>454.6</td>
<td>443.0</td>
<td>436.5</td>
</tr>
<tr>
<td>A 90:</td>
<td>595.1</td>
<td>505.2</td>
<td>461.1</td>
<td>444.3</td>
<td>435.1</td>
<td>423.4</td>
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<tr>
<td>C 110:</td>
<td>615.5</td>
<td>520.4</td>
<td>473.6</td>
<td>447.2</td>
<td>425.9</td>
<td>406.9</td>
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<tr>
<td>H 120:</td>
<td>656.7</td>
<td>540.9</td>
<td>488.4</td>
<td>453.6</td>
<td>443.7</td>
<td>431.8</td>
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<tr>
<td>135:</td>
<td>698.8</td>
<td>605.4</td>
<td>525.7</td>
<td>481.4</td>
<td>457.6</td>
<td>439.2</td>
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<td>140:</td>
<td>703.7</td>
<td>708.8</td>
<td>592.9</td>
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**-- SIMPLIFIED SCORING OPTIONS**

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<th>1.700</th>
<th>BAS</th>
<th>1.000</th>
<th>CPW</th>
<th>2.590</th>
</tr>
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**SAILING DATA**

| MAIN | 44.67 | SYM: | 107.86 | ASYM: | 0.00 | MIZZEN: | 0.00 |

**-- PROPELLER AND INSTALLATION**

**-- FLOTATION DATA**

| FPPS | 1.414 | SFPP | 0.300 | SAFF | 11.210 | FF | 1.392 | FA | 1.121 |

**-- HYDROSTATICS**

| ECM | 0.000 | CBRC | 0.000 | CBMC | 0.000 | CBTC | 0.000 |

**-- STABILITY DATA**

No inclining test was performed. Club righting moment is based on class standard vertical center of gravity of 0.155 to the offset file datum.

**-- CENTERBOARD AND DRAFT**

| DRCB | 0.000 |

**-- PROPELLER AND INSTALLATION**

**PAPA was entered directly. This is a pre-1988 strut drive.**

**PIPA** 0.0031

**VPP** 28/FEB/06 19:04:02  
**Certificate No.** 99913  
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