

Measurement Certificate



Sail No. **452**

Issue Date January 24, 2004

Status **Approved**

Ontario ZTYSR452H888 Colors White White Red
 Builder Serial Number Hull Deck Waterline

Section 3: Rudder

(Units in mm except for weights)

| Measurement | Min. | Max. |
|---|------|------|
| R3.1 HDP Rudder..... | 76 | 89 |
| R3.2 Rudder Trailing Edge Length..... | 1099 | 1111 |
| R3.3 Rudder Leading Edge Length..... | 1092 | 1105 |
| R3.4 Rudder Top..... | 431 | 438 |
| R3.5 Rudder Bottom..... | 199 | 206 |
| R3.6 Rudder Top Thickness..... | 63 | 70 |
| R3.7 Rudder Bottom Thickness..... | 24 | 28 |
| R3.8 Rudder Trailing Edge Thickness (P/F).. | 3 | |
| R3.9 Rudder Space (P/F)..... | | 13 |

Comments

- Keel grandfathered C
- Rudder grandfathered
- Requires weighing
- Correctors by factory
- Mast is certified
- Mast not measured
- Deck not measured
- Serial number missing

Section 4: Keel

| | | | |
|--|------|------|------|
| R4.1 HDP Keel Top..... | 2946 | 2925 | 2950 |
| R4.2 HDP Keel Bottom..... | 3063 | 3040 | 3064 |
| R4.3 Keel Depth..... | 255 | 230 | 245 |
| R4.4 Keel Top Chord..... | 1038 | 1025 | 1042 |
| R4.5 Keel Top 10%..... | 82 | 78 | 84 |
| R4.6 Keel Top 20%..... | 100 | 98 | 103 |
| R4.7 Keel Top 40%..... | 109 | 109 | 114 |
| R4.8 Keel Top 70%..... | 80 | 79 | 84 |
| R4.9 Keel Bottom Chord..... | 676 | 79 | 84 |
| R4.10 Keel Bottom 10%..... | 52 | 662 | 678 |
| R4.11 Keel Bottom 20%..... | 63 | 46 | 53 |
| R4.12 Keel Bottom 40%..... | 71 | 62 | 67 |
| R4.13 Keel Bottom 70%..... | 53 | 70 | 75 |
| R4.14 Keel Trailing Edge Top Thick. (P/F)..... | Pass | 51 | 56 |
| R4.15 Keel Trailing Edge Bottom (P/F)..... | Pass | 6.5 | |
| R4.16 Keel Trailing Edge Straight (P/F)..... | Pass | 3.0 | |
| R4.17 Keel Leading Edge Straight (P/F)..... | Pass | P/F | |
| R4.18 Keel Bottom Straight (P/F)..... | Pass | P/F | |
| R4.19 Keel Section Maintained (P/F)..... | Pass | P/F | |

Section 5: Deck**Measurement****Min.****Max.****Sail No.****Version**

| | | | |
|---|-------------|------|------|
| R5.1 Forestay Location (P/F)..... | Pass | 135 | 155 |
| R5.2 Forestay to Chainplate (P/F)..... | Pass | 2946 | 2997 |
| R5.3 Chainplate to Sheerline (P/F)..... | Pass | 152 | 178 |
| R5.4 Partners (P/F)..... | Pass | 206 | 206 |
| R5.5 Mast Step Thickness (P/F)..... | Pass | | 17 |
| R5.6 Mast Heel Point..... | Pass | 717 | 740 |

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10/5/05

NOTE:

A copy of this certificate is to be held by the owner(s) of this Sonar and presented on demand as required as class sanctioned events.

If this Sonar is no longer in your possession, please provide the name and address of the new owner below and send the original copy of this certificate to the S.C.A. secretary.

Section 6: Spars

| | | | |
|--|--------------|------|-------|
| R6.1 Mast Length..... | 10280 | | 10315 |
| R6.2 Upper Band Height (P/F)..... | Pass | | 10110 |
| R6.3 Upper Band Width (P/F)..... | Pass | 25 | |
| R6.4 Mast Fore and Aft (P/F)..... | Pass | 100 | 103 |
| R6.5 Mast Transverse (P/F)..... | Pass | 66 | 72 |
| R6.6 Spinnaker Hoist..... | 8375 | | 8389 |
| R6.7 Forestay Height..... | 8232 | 8223 | 8236 |
| R6.8 Upper Shroud Height..... | 8232 | 8223 | 8236 |
| R6.9 Spar Curvature (P/F)..... | Pass | | |
| R6.10 Spreader Height..... | 4562 | | 50 |
| R6.11 Spreader Transverse Length..... | 1464 | 4555 | 4570 |
| R6.12 Spreader For and Aft Length..... | 104 | 1426 | 1486 |
| R6.13 Lower Shroud Height..... | 4450 | 71 | 135 |
| R6.14 Upper Spin Pole Height..... | 2435 | 4438 | 4451 |
| R6.15 Lower Spin Pole Height..... | 2059 | 2432 | 2445 |
| R6.16 Spin Pole Projection (P/F)..... | Pass | 2042 | 2064 |
| R6.17 Fore and Aft Spreader section (P/F)..... | Pass | | 60 |
| R6.18 Vertical Spreader section (P/F)..... | Pass | | |
| R6.19 Lower band Height (P/F)..... | Pass | 45 | |
| R6.20 Lower Band Width. (P/F)..... | Pass | 18 | |
| R6.21 Forestay Length (P/F)..... | Pass | 1727 | |
| R6.22 Forestay Diameter (P/F)..... | Pass | 25 | |
| R6.23 Shroud Diameter (P/F)..... | Pass | | |
| R6.24 Backstay Diameter (P/F)..... | Pass | 7848 | 8001 |
| R6.25 Mast Tip Weight (kg)..... | Pass | 3.8 | |
| R6.26 Boom Curvature (P/F)..... | Pass | 3.8 | |
| R6.27 Boom Vertical section (P/F)..... | Pass | 3.0 | |
| R6.28 Boom Transverse section (P/F)..... | Pass | 10 | |
| R6.29 Boom Band Width (P/F)..... | Pass | | 25 |
| R6.30 Boom Band Distance (P/F)..... | Pass | 88 | 98 |
| R6.31 Spin Pole Length (P/F)..... | Pass | 55 | 65 |
| R6.32 Spin Pole Diameter (P/F)..... | Pass | 25 | |
| R6.33 Whisker Pole Length (P/F)..... | | | 3404 |
| R6.34 Whisker Pole Diameter (P/F)..... | | 2597 | 2610 |

Section 7: Racing Weights

| | | | |
|--------------------------------------|--------------|--------------------|------|
| R7.1 Lifting Sling Weight (P/F)..... | Pass | 50 | 3kg |
| R7.2 Racing Weight (kg)..... | 944.0 | 950kg w/correctors | 3100 |
| R7.3 Corrector Forward (kg)..... | | | 64 |
| R7.3 Corrector Sump (kg)..... | 6.0 | | |
| R7.3 Corrector Aft (kg)..... | | | |

NAME _____

ADDRESS _____

PHONE _____

EMAIL _____