

# Measurement Certificate



Sail No. **539**

Issue Date November 2, 2009

Status **Approved**

Ontario ZTYSR539O696 Colors White White None  
 Builder Serial Number Hull Deck Waterline

### Section 3: Rudder

(Units in mm except for weights)

	Measurement	Min.	Max.
R3.1 HDP Rudder.....	<b>87</b>	76	89
R3.2 Rudder Trailing Edge Length.....	<b>1110</b>	1099	1111
R3.3 Rudder Leading Edge Length.....	<b>1095</b>	1092	1105
R3.4 Rudder Top.....	<b>432</b>	431	438
R3.5 Rudder Bottom.....	<b>202</b>	199	206
R3.6 Rudder Top Thickness.....	<b>70</b>	63	70
R3.7 Rudder Bottom Thickness.....	<b>26</b>	24	28
R3.8 Rudder Trailing Edge Thickness (P/F)..	<b>Pass</b>	3	
R3.9 Rudder Space (P/F).....	<b>Pass</b>		13

### Comments

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

### Section 4: Keel

R4.1 HDP Keel Top.....	<b>2910</b>	2925	2950
R4.2 HDP Keel Bottom.....	<b>3040</b>	3040	3064
R4.3 Keel Depth.....	<b>240</b>	230	245
R4.4 Keel Top Chord.....	<b>1027</b>	1025	1042
R4.5 Keel Top 10%.....	<b>80</b>	78	84
R4.6 Keel Top 20%.....	<b>96.8</b>	98	103
R4.7 Keel Top 40%.....	<b>109.4</b>	109	114
R4.8 Keel Top 70%.....	<b>82.4</b>	79	84
R4.9 Keel Bottom Chord.....	<b>660</b>	662	678
R4.10 Keel Bottom 10%.....	<b>47</b>	46	53
R4.11 Keel Bottom 20%.....	<b>63</b>	62	67
R4.12 Keel Bottom 40%.....	<b>72.5</b>	70	75
R4.13 Keel Bottom 70%.....	<b>56</b>	51	56
R4.14 Keel Trailing Edge Top Thick. (P/F).....	<b>Pass</b>	6.5	
R4.15 Keel Trailing Edge Bottom (P/F).....	<b>Pass</b>	3.0	
R4.16 Keel Trailing Edge Straight (P/F).....	<b>Pass</b>	P/F	
R4.17 Keel Leading Edge Straight (P/F).....	<b>Pass</b>	P/F	
R4.18 Keel Bottom Straight (P/F).....	<b>Pass</b>	P/F	
R4.19 Keel Section Maintained (P/F).....	<b>Pass</b>	P/F	

Weighed by Hinkel at 2009 Worlds  
 Mast Step remeasured by Hinkel at 2009 Worlds

**Section 5: Deck**

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

**Sail No.****539****Version**

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.....	<b>10293</b>		10315
R6.2 Upper Band Height (P/F).....	<b>Pass</b>		10110
R6.3 Upper Band Width (P/F).....	<b>Pass</b>	25	
R6.4 Mast Fore and Aft (P/F).....	<b>Pass</b>	100	103
R6.5 Mast Transverse (P/F).....	<b>Pass</b>	66	72
R6.6 Spinnaker Hoist.....	<b>8314</b>		8389
R6.7 Forestay Height.....	<b>8229</b>	8223	8236
R6.8 Upper Shroud Height.....	<b>8229</b>	8223	8236
R6.9 Spar Curvature (P/F).....	<b>Pass</b>		50
R6.10 Spreader Height.....	<b>4563</b>	4555	4570
R6.11 Spreader Transverse Length.....	<b>1466</b>	1426	1486
R6.12 Spreader For and Aft Length.....	<b>71.7</b>	71	135
R6.13 Lower Shroud Height.....	<b>4443</b>	4438	4451
R6.14 Upper Spin Pole Height.....	<b>2443</b>	2432	2445
R6.15 Lower Spin Pole Height.....	<b>2061</b>	2042	2064
R6.16 Spin Pole Projection (P/F).....	<b>Pass</b>		60
R6.17 Fore and Aft Spreader section (P/F).....	<b>Pass</b>	45	
R6.18 Vertical Spreader section (P/F).....	<b>Pass</b>	18	
R6.19 Lower band Height (P/F).....	<b>Pass</b>	1727	
R6.20 Lower Band Width. (P/F).....	<b>Pass</b>	25	
R6.21 Forestay Length (P/F).....	<b>Pass</b>	7848	8001
R6.22 Forestay Diameter (P/F).....	<b>Pass</b>	3.8	
R6.23 Shroud Diameter (P/F).....	<b>Pass</b>	3.8	
R6.24 Backstay Diameter (P/F).....	<b>Pass</b>	3.0	
R6.25 Mast Tip Weight (kg).....	<b>10.23</b>	10	
R6.26 Boom Curvature (P/F).....	<b>Pass</b>		25
R6.27 Boom Vertical section (P/F).....	<b>Pass</b>	88	98
R6.28 Boom Transverse section (P/F).....	<b>Pass</b>	55	65
R6.29 Boom Band Width (P/F).....	<b>Pass</b>	25	
R6.30 Boom Band Distance (P/F).....	<b>Pass</b>		3404
R6.31 Spin Pole Length (P/F).....	<b>Pass</b>	2597	2610
R6.32 Spin Pole Diameter (P/F).....	<b>Pass</b>	50	
R6.33 Whisker Pole Length (P/F).....			3100
R6.34 Whisker Pole Diameter (P/F).....			64

**NAME** \_\_\_\_\_**ADDRESS** \_\_\_\_\_**PHONE** \_\_\_\_\_**EMAIL** \_\_\_\_\_**Section 7: Racing Weights**

R7.1 Lifting Sling Weight (P/F).....	<b>Pass</b>		3kg
R7.2 Racing Weight (kg).....	<b>951.0</b>	950kg w/correctors	
R7.3 Corrector Forward (kg).....			
R7.3 Corrector Sump (kg).....			
R7.3 Corrector Aft (kg).....			