



INTERMODAL MATERIÉL
AND
NAUTICAL/NUCLEAR ANALYSIS
IMANNA
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CERTIFICATION TEST REPORT

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TEST REPORT
18996-4
ABYC H-24
WATERTIGHT-WEATHERTIGHT TESTS
ON
FUEL TANK VENT P-TRAP
P/N:1674
FOR
ATTWOOD MARINE

CUSTOMER:

ATTWOOD CORPORATION
1016 N. MONROE ST.
LOWELL, MI 49331

**MANUFACTURER
OF TEST ARTICLE:** Attwood Marine

DATE: March 9, 2011

REPORT NO.: 18996-4
IMANNA JOB NO.: 18996
CUSTOMER P.O. NO.: 179643
CONTRACT: N/A
PAGES IN REPORT: 2

STATE OF FLORIDA

ROBERT L. WHITE, being duly sworn, deposes and says: The information contained in this report is the result of complete and carefully conducted tests and is to the best of his knowledge true and correct in all respects.

Robert L. White

SUBSCRIBED and sworn to before me this 9th day of March, 2011

Marydel Kramer



MARYDEL KRAMER
Notary Public - State of Florida
My Comm. Expires Jul 31, 2012
Commission # DD 810718
Bonded Through National Notary Assn.

Imanna shall have no liability for damages of any kind to person or property, including special or consequential damages resulting from Imanna's providing the service covered by the report.

IMANNA LABORATORY, Inc.
TEST BY
Alan Bell
PROJ. MANAGER

1. TEST ARTICLE

One fuel tank vent P-Trap assembly (P/N:1674) was received from Attwood Marine for test. The assembly is designed to be mounted above the sheer line on a boat deck.

2. REQUIREMENT

The received sample is to be subjected to the A-24 "Weathertight and Watertight" Tests from the "Standards and Technical Information Reports for Small Craft" of the ABYC, to verify that the assembly is acceptable for installation in the areas prescribed.

3. PROCEDURE

Weathertightness Test

The sample was mounted in a test fixture and subjected to a continuous fifteen minute spray of water over the entirety of assembly top, face and side surfaces. The rate of flow during the test was 2.5" / hr at a pressure of 5 psi. The assembly was monitored for intrusion of water for the duration of and following the test period.

Watertightness Test

The sample was mounted in a test fixture and subjected to a continuous exposure to a direct stream of water from a one-inch nozzle at a pressure of 15 PSI from a distance of ten ft.(3 meters) for a period of five minutes. The assembly was monitored for intrusion of water for the duration of and following the test period.

4. RESULTS SUMMARY

No water was detected in the assembly following either the "Weathertight" or the "Watertight" test. The received P-Trap assembly meets the "Weathertight " and "Watertight" test requirements of ABYC H-24.

5. OBSERVATIONS AND COMMENTS

The results presented herein apply only to the test article as prepared and as tested. All equipment used in the performance of these tests was calibrated to standards traceable to the N.I.S.T.