



**KIRBY INLAND MARINE, LP
MAINTENANCE DEPARTMENT
16402 1/2 De Zavala
CHANNELVIEW, TEXAS 77530**

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VAPOR TIGHTNESS TEST

Note: Test Results are Valid for (1) One Year from Date of Test!

Vessel Name: 407 Test Date: 6-18-13
 Testing Location: Gulf Marine Maximum Load Rate: (BPH) 5,000
 Tanks Tested: All Pressure Indicator: Manometer

TEST RESULTS

Test Duration: 30 Minutes Beginning Pressure: 28" Inches H2O
 Ending Pressure: 27.5" Inches H2O
 Total Pressure Loss: .5 Inches H2O
 Allowable Pressure Loss: 2.95 Inches H2O

Barge is Vapor Tight if "Total Pressure Loss" is LESS than "Allowable Pressure Loss"

This vessel has been tested in accordance with Section 61.304F and has been found to be vapor tight.

GARY V DEL VALLE
 Tester: (Print)

Randy Jones
 Witness: (Print)

Gary V Del Valle
 Tester: (Signature)

Randy Jones
 Witness: (Signature)

Port Engineer
 Affiliation of Witness:

- | | |
|---|--------------------------------------|
| (P1) - Beginning Pressure | (P2) - Ending Pressure |
| (Delta P) - Total Pressure Loss | (Delta PM) - Allowable Pressure Loss |
| (TP) - 14.7 plus Barge Test Pressure in PSI | (L) - Maximum Load Rate in BPH |
| (V) - Volume of Tank (s) | (Delta T) = Test Duration |

.861 - PIA @ (P1)

$$.861 \times \frac{15.7}{(TP)} \times \left(\frac{5,000}{(L)} \right) \frac{22892}{(V)} = \frac{2.95}{(\text{Delta PM})}$$