



KIRBY INLAND MARINE, LP  
 MAINTENANCE DEPARTMENT  
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**VAPOR TIGHTNESS TEST**

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

Vessel Name: Kirby 10141 Test Date: 03-04-2024  
 Testing Location: Sienna Maximum Load Rate: (BPH) 3500  
 Tanks Tested: ALL Pressure Indicator: Gauge

**TEST RESULTS**

Test Duration: 30 Minutes Beginning Pressure: 28 Inches H2O  
 Ending Pressure: 28 Inches H2O  
 Total Pressure Loss: 0 Inches H2O  
 Allowable Pressure Loss: 4.73 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.

WILLARD SWARAS  
 Tester: (Print)

Dorian Rocha  
 Witness: (Print)

[Signature]  
 Tester: (Signature)

[Signature]  
 Witness: (Signature)

Kirby Inland Marine Lp  
 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)

$$.861 \times \frac{15.7}{(TP)} \times \left( \frac{3500}{(L)} \right) \div \frac{10000}{(V)} = \frac{4.73}{(\text{Delta PM})}$$