



KIRBY INLAND MARINE, LP  
 MAINTENANCE DEPARTMENT  
 18350 MARKET ST.  
 CHANNELVIEW, TX 77530

OFFICE (713) 435-1730

FAX (713) 435-1714

### VAPOR TIGHTNESS TEST

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

Vessel Name: Kirby 29136 Test Date: 4/23/24  
 Testing Location: Channel Shipyard Maximum Load Rate: (BPH) 5000  
 Tanks Tested: All Pressure Indicator: Cert. Gauge

### TEST RESULTS

Test Duration: 30 Minutes Beginning Pressure: 84 Inches H2O  
 Ending Pressure: 84 Inches H2O  
 Total Pressure Loss: 0 Inches H2O  
 Allowable Pressure Loss: 2.7 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.

Karim Morales  
 Tester: (Print)

Andrew Maharrj  
 Witness: (Print)

[Signature]  
 Tester: (Signature)

Andrew Maharrj  
 Witness: (Signature)

Kirby  
 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)

$$.861 \times \frac{17.7}{(TP)} \times \left( \frac{5000}{(L)} \div \frac{28500}{(V)} \right) = \frac{2.7}{(\text{Delta PM})}$$