



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 10113 Test Date: 5-10-24  
 Testing Location: Main Ironworks Maximum Load Rate: (BPH) 3,500  
 Tanks Tested: All Pressure Indicator: Cert 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: 5.33 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.

Patrick Verdin Jr.  
 Tester: (Print)

Tommy Lapine  
 Witness: (Print)

Pat H. J.  
 Tester: (Signature)

[Signature]  
 Witness: (Signature)

Kirby  
 Affiliation of Witness:

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

$$.861 \times \frac{17.7}{(TP)} \times \left( \frac{3,500}{(L)} \div \frac{10,000}{(V)} \right) = \frac{5.33}{(\text{Delta PM})}$$