



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: HFL 401 Test Date: 6-8-2021  
 Testing Location: Magnolia (EAST) Maximum Load Rate: (BPH) 5000  
 Tanks Tested: All Pressure Indicator: cat 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: 2.66 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.

Murphy Banks  
 Tester: (Print)  
Murphy Banks  
 Tester: (Signature)

Alex Ocan  
 Witness: (Print)  
[Signature]  
 Witness: (Signature)  
Rio  
 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
- $$.861 \times \frac{15.7}{(TP)} \times \left( \frac{5000}{(L)} \right) \frac{1}{99,500} \frac{(V)}{(Delta PM)} = \frac{2.66}{(Delta PM)}$$