



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: HTCO - 3070 Test Date: 07-10-19
 Testing Location: Texas Barge & Boat Maximum Load Rate: (BPH) 5,000
 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: 2.57 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.

DH. L. D. SUNDAY
 Tester: (Print)
[Signature]
 Tester: (Signature)

DANNY E. MURRAY
 Witness: (Print)
[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

$$.861 \times \frac{15.7}{(TP)} \times \left(\frac{5,000}{(L)} \div \frac{26,200}{(V)} \right) = \frac{2.57}{(\text{Delta PM})}$$