



TRINITY INDUSTRIES, INC.
BUSINESS UNIT # 296

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DOCUMENT TYPE: Controlled Form List

TITLE: Vapor Test Letter

App'd: Howard Abell Jr..

VAPOR TIGHTNESS TEST

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

Vessel Name:	<u>GBL 5430</u>	Test Date:	<u>10/13/2016</u>
Testing Location:	<u>Ashland City, TN #296</u>	Maximum Load Rate: (BPH)	<u>5000</u>
Tanks Tested:	<u>All Cargo Tanks</u>	Pressure Indicator	<u>MANOMETER</u>

TEST RESULTS

Test Duration: 30 Minutes	Beginning Pressure	<u>78"</u>	Inches H2O
	Ending Pressure	<u>78"</u>	Inches H2O
	Total Pressure Loss	<u>0</u>	Inches H2O
	Allowable Pressure Loss	<u>2.5865</u>	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.

<u>[Signature]</u>	<u>10-13-16</u>	<u>Travis Taylor</u>	<u>10-13-16</u>
Signature of Trinity Marine Tester	DATE	Signature of Trinity Marine Witness	DATE
<u>DIEGO CRUC</u>		<u>Travis Taylor</u>	
PRINT Name of Trinity Marine Tester		PRINT Name of Trinity Marine 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) - Volumn of Tank (s) | (Delta T) = Test Duration |
| .861 - PIA @ (P1) | |

$$.861 \times \frac{17.7}{(TP)} \times \frac{5000}{(L)} \div \frac{29,459.57}{(V)} = \frac{2.5865}{(\text{Delta PM})}$$