

TANK PRESSURE CALCULATION and WATER SENSOR CALIBRATION

EZY CHEK SYSTEMS

FINAL REPORT

PC # and WO #	
NAME and FID #	Amoco - FID N/A
ADDRESS	59572 Mayflower Rd.
CITY/STATE/ZIP	South Bend, IN 46614
CONTACT	
PHONE	

DATE AND TIME	2/8/23 - 12:10
WEATHER	40 Cloudy
INVOICE	Collected
TOTAL TANK VOL.	
PRODUCT VOL.	
ULLAGE VOL.	
PRODUCT TYPE	Regular
TANK #	1
Depth of Groundwater Determined:	0
BY:	STICK
WHERE:	MONITORING WELL - TANK BED

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

PASS	TIGHT TANK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.
Pass	ULLAGE (DRY) PORTION OF LEAK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.
PASS	BELOW PRODUCT LEVEL (WET) PORTION LEAK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(MARK ONLY ONE)

No Water Intrusion	X
Water Intrusion	
Not Applicable	

OPERATOR INFO

Print Name	Chris Zell	Certification #	ICC 102219285
Sign Name	<i>Chris Zell</i>	Expiration Date	6/17/24
Testing Company	Midwest Tank Testing	Telephone #	800-975-1436
Address	316 W. Indiana Ave.		
City/State/Zip	Chesterton, IN 46304		

	Serial Number
IN-TANK MICROPHONE	M2112020/M2003031/M2207117
ACOUSTIC SIGNAL PROCESSOR	E2013002
PRESSURE SENSOR	412531919/412532619/41425121
WATER SENSOR DISPLAY	D2010304/D2010292/D2203802
WATER SENSOR PROBE	P2011313/P2207117

Calibration Expiration Date
November-23
November-23
November-23
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COMMENTS/RECOMMENDATIONS: Biocide was used with water calibration to test for water intrusion.

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DATA SHEET

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PRODUCT VOL.	
ULLAGE VOL.	
PRODUCT TYPE	Regular
TANK #	1
Depth of Groundwater Determined:	0
BY:	MEASURING STICK
WHERE:	MONITORING WELL - TANK BED

Test Location Information

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TANK TIGHTNESS TEST - (TTT) PRESSURE SENSOR CALCULATION

33.00	x	0.026	=	0.858	PSI (1)
INCHES OF PRODUCT		WEIGHT OF PRODUCT			
0.00	x	.036	=	0.000	PSI (2)
INCHES OF WATER IN TANK					
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.858	PSI (3)
0.00	x	.036	=	0.000	PSI (4)
INCHES OF WATER OUTSIDE TANK					
Total Head Pressure Minus Outside Water Pressure			=	0.858	+/- PSI (5)
Always add .5 PSI			+	0.500	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.358	+/- PSI (7)

ACOUSTIC TEST TIME

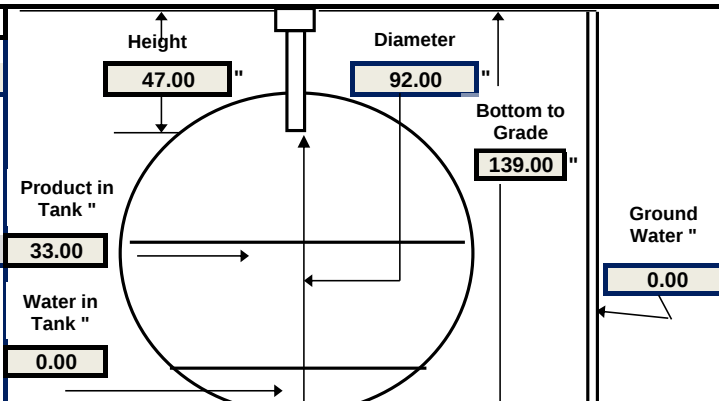
	Time	Pressure
Baseline Background:	1:21 PM	0.0
Blower Started:	1:23 PM	0.0
Test Pressure Reached:	2:00 AM	1.362
Blower Turned Off:	2:06 PM	1.439
Test Began:	2:08 PM	1.416
Test Ended:	2:26 PM	1.335

EQUIPMENT CALIBRATION DUE DATE AND SERIAL NUMBERS

	Serial Number	Calibration Due Date
In-Tank Microphone	M2112020/M2003031/M2207117	November-23
Acoustic Signal Processor	E2013002	November-23
Pressure Sensor	412531919/412532619/41425121	November-23
Water Sensor Display	D2010304/D2010292/D2203802	November-23
Water Sensor Probe	P2011313/P2207117	November-23

WATER SENSOR CALIBRATION

Added:	50	50	50
	Cal #1	Cal #2	Cal #3
Average:	50		
Calculation for Test Period:			
50 ÷ 3780 = 0.013 ÷ .05 = 0.265 x 60 = 16 minutes			
Avg. Cal.	"A" Factor	Min.	Time of Test
Water Intrusion Test Period:			
Began:	2:08 PM		
Ended:	2:26 PM		



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PHONE	

DATE AND TIME	2/8/23 - 12:10
WEATHER	40 Cloudy
INVOICE	Collected
TOTAL TANK VOL.	
PRODUCT VOL.	
ULLAGE VOL.	
PRODUCT TYPE	Premium
TANK #	2
Depth of Groundwater Determined:	0
BY:	STICK
WHERE:	MONITORING WELL - TANK BED

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

PASS	TIGHT TANK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.
PASS	ULLAGE (DRY) PORTION OF LEAK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.
PASS	BELOW PRODUCT LEVEL (WET) PORTION LEAK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(MARK ONLY ONE)

No Water Intrusion	X
Water Intrusion	
Not Applicable	

OPERATOR INFO

Print Name	Chris Zell	Certification #	ICC 102219285
Sign Name	<i>Chris Zell</i>	Expiration Date	6/17/24
Testing Company	Midwest Tank Testing	Telephone #	800-975-1436
Address	316 W. Indiana Ave.		
City/State/Zip	Chesterton, IN 46304		

IN-TANK MICROPHONE	Serial Number
	M2112020/M2003031/M2207117
ACOUSTIC SIGNAL PROCESSOR	
	E2013002
PRESSURE SENSOR	
	412531919/412532619/41425121
WATER SENSOR DISPLAY	
	D2010304/D2010292/D2203802
WATER SENSOR PROBE	
	P2011313/P2207117

Calibration Expiration Date
November-23
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COMMENTS/RECOMMENDATIONS: Biocide was used with water calibration to test for water intrusion. Need to repair the vent cap for the split tank. I could not remove it.

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DATA SHEET

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INVOICE	Collected
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PRODUCT VOL.	
ULLAGE VOL.	
PRODUCT TYPE	Premium
TANK #	2
Depth of Groundwater Determined:	0
BY:	MEASURING STICK
WHERE:	MONITORING WELL - TANK BED

Test Location Information

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TANK TIGHTNESS TEST - (TTT) PRESSURE SENSOR CALCULATION

24.00	x	0.026	=	0.624	PSI (1)
INCHES OF PRODUCT		WEIGHT OF PRODUCT			
0.00	x	.036	=	0.000	PSI (2)
INCHES OF WATER IN TANK					
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.624	PSI (3)
0.00	x	.036	=	0.000	PSI (4)
INCHES OF WATER OUTSIDE TANK					
Total Head Pressure Minus Outside Water Pressure			=	0.624	+/- PSI (5)
Always add .5 PSI			+	0.500	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.124	+/- PSI (7)

ACOUSTIC TEST TIME

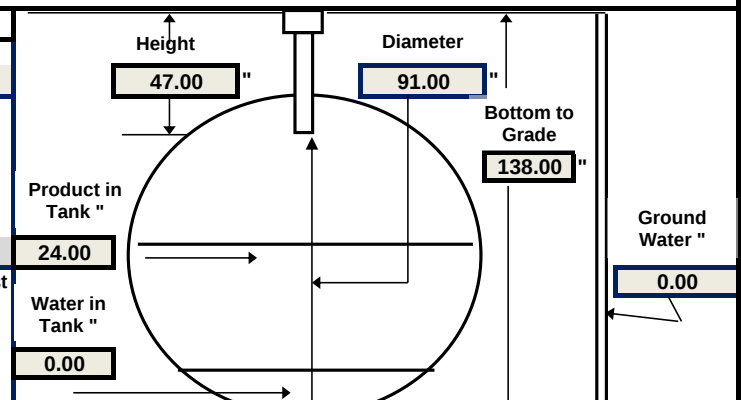
	Time	Pressure
Baseline Background:	1:21 PM	0.0
Blower Started:	1:23 PM	0.0
Test Pressure Reached:	1:58 PM	1.273
Blower Turned Off:	2:05 PM	1.442
Test Began:	2:07 PM	1.436
Test Ended:	2:25 PM	1.224

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Acoustic Signal Processor	E2013002	November-23
Pressure Sensor	412531919/412532619/41425121	November-23
Water Sensor Display	D2010304/D2010292/D2203802	November-23
Water Sensor Probe	P2011313/P2207117	November-23

WATER SENSOR CALIBRATION

Added:	50	50	50
	Cal #1	Cal #2	Cal #3
Average:	50		
Calculation for Test Period:			
50 ÷ 3780 = 0.013 ÷ .05 = 0.265 x 60 = 16 minutes			
Avg. Cal.	"A" Factor		Time of Test
Water Intrusion Test Period:			
Began:	2:07 PM		
Ended:	2:25 PM		



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PHONE	

DATE AND TIME	2/8/23 - 12:10
WEATHER	40 Cloudy
INVOICE	Collected
TOTAL TANK VOL.	
PRODUCT VOL.	
ULLAGE VOL.	
PRODUCT TYPE	Diesel
TANK #	3
Depth of Groundwater Determined:	0
BY:	STICK
WHERE:	MONITORING WELL - TANK BED

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

PASS	TIGHT TANK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.
Fail	ULLAGE (DRY) PORTION OF LEAK THIS UNDERGROUND STORAGE TANK PASSES / FAILS THE CRITERIA SET FORTH BY THE U.S. EPA.
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PRESSURE SENSOR	
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WATER SENSOR DISPLAY	
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WATER SENSOR PROBE	
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Calibration Expiration Date
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COMMENTS/RECOMMENDATIONS: Biocide was used with water calibration to test for water intrusion. Need to repair the split tank vent cap. I could not remove it. Hissing sound is coming from old VR area with nothing but rocks in there, no riser.

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PHONE	

TANK TIGHTNESS TEST - (TTT) PRESSURE SENSOR CALCULATION

38.00	x	0.031	=	1.178	PSI (1)
INCHES OF PRODUCT		WEIGHT OF PRODUCT			
0.00	x	.036	=	0.000	PSI (2)
INCHES OF WATER IN TANK					
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	1.178	PSI (3)
0.00	x	.036	=	0.000	PSI (4)
INCHES OF WATER OUTSIDE TANK					
Total Head Pressure Minus Outside Water Pressure			=	1.178	+/- PSI (5)
Always add .5 PSI			+	0.500	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.678	+/- PSI (7)

ACOUSTIC TEST TIME

	Time	Pressure
Baseline Background:	1:21 PM	0.0
Blower Started:	1:23 PM	0.0
Test Pressure Reached:	2:08 PM	1.699
Blower Turned Off:	2:09 PM	1.888
Test Began:	2:10 PM	1.765
Test Ended:	2:30 PM	1.056

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