



BARGE "EMS 523"

INNAGE TRIM TABLE

HULL # 1247

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
1 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
2 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4
2 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4
3 PORT	00-1/2	00-1/2	01-1/8	01-1/8	01-3/4	01-3/4	02-1/4	02-1/4	02-3/4	02-3/4	03-1/2	03-1/2
3 STBD	00-5/8	00-5/8	01-1/8	01-1/8	01-3/4	01-3/4	02-1/4	02-1/4	02-7/8	02-7/8	03-1/2	03-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
AFT DRAFT = 4'-00"
DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"
FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 253'-00"

April 28, 2020

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "EMS 523"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL #C-1247

GAUGE HEIGHT 15'-06-1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.45	0	360.12	0	723.74	0	1,087.12	0	1,450.50	0	1,814.14	0	2,177.77	0	2,541.40	0	2,904.93	0	3,268.43
1/4	25.71	1/4	367.70	1/4	731.32	1/4	1,094.69	1/4	1,458.08	1/4	1,821.71	1/4	2,185.35	1/4	2,548.98	1/4	2,912.50	1/4	3,276.08
1/2	29.97	1/2	375.27	1/2	738.89	1/2	1,102.25	1/2	1,465.65	1/2	1,829.29	1/2	2,192.92	1/2	2,556.55	1/2	2,920.08	1/2	3,283.58
3/4	34.23	3/4	382.85	3/4	746.47	3/4	1,109.81	3/4	1,473.23	3/4	1,836.86	3/4	2,200.50	3/4	2,567.65	3/4	2,931.15	3/4	3,291.15
1	38.49	1	390.42	1	754.04	1	1,117.38	1	1,480.81	1	1,844.44	1	2,208.07	1	2,571.71	1	2,935.22	1	3,298.72
1/4	44.01	1/4	398.00	1/4	761.62	1/4	1,124.94	1/4	1,488.38	1/4	1,852.01	1/4	2,215.65	1/4	2,579.28	1/4	2,942.80	1/4	3,306.30
1/2	49.53	1/2	405.58	1/2	769.19	1/2	1,132.50	1/2	1,495.96	1/2	1,859.59	1/2	2,223.22	1/2	2,586.86	1/2	2,950.37	1/2	3,313.87
3/4	55.06	3/4	413.15	3/4	776.77	3/4	1,140.07	3/4	1,503.53	3/4	1,867.17	3/4	2,230.80	3/4	2,594.43	3/4	2,957.94	3/4	3,321.44
2	60.58	2	420.73	2	784.35	2	1,147.83	2	1,511.11	2	1,874.74	2	2,238.38	2	2,602.01	2	2,965.51	2	3,329.01
1/4	67.37	1/4	428.30	1/4	791.92	1/4	1,155.19	1/4	1,518.68	1/4	1,882.32	1/4	2,245.95	1/4	2,609.58	1/4	2,973.09	1/4	3,336.59
1/2	74.15	1/2	435.88	1/2	799.50	1/2	1,162.75	1/2	1,526.26	1/2	1,889.89	1/2	2,253.53	1/2	2,617.16	1/2	2,980.66	1/2	3,344.16
3/4	80.94	3/4	443.45	3/4	807.07	3/4	1,170.32	3/4	1,533.84	3/4	1,897.47	3/4	2,261.10	3/4	2,624.74	3/4	2,988.23	3/4	3,351.73
3	87.72	3	451.03	3	814.65	3	1,177.88	3	1,541.41	3	1,905.04	3	2,268.68	3	2,632.31	3	2,995.81	3	3,359.31
1/4	95.22	1/4	458.60	1/4	822.22	1/4	1,185.44	1/4	1,548.99	1/4	1,912.62	1/4	2,276.25	1/4	2,639.88	1/4	3,003.38	1/4	3,366.88
1/2	102.72	1/2	466.18	1/2	829.80	1/2	1,193.01	1/2	1,556.56	1/2	1,920.20	1/2	2,283.83	1/2	2,647.46	1/2	3,010.95	1/2	3,374.45
3/4	110.21	3/4	473.75	3/4	837.37	3/4	1,200.57	3/4	1,564.14	3/4	1,927.77	3/4	2,291.41	3/4	2,655.03	3/4	3,018.53	3/4	3,382.02
4	117.71	4	481.33	4	844.95	4	1,208.13	4	1,571.71	4	1,935.35	4	2,298.98	4	2,662.60	4	3,026.10	4	3,389.60
1/4	125.29	1/4	488.90	1/4	852.52	1/4	1,215.70	1/4	1,579.29	1/4	1,942.92	1/4	2,306.56	1/4	2,670.17	1/4	3,033.67	1/4	3,397.17
1/2	132.86	1/2	496.48	1/2	860.10	1/2	1,223.26	1/2	1,586.87	1/2	1,950.50	1/2	2,314.13	1/2	2,677.74	1/2	3,041.24	1/2	3,404.74
3/4	140.44	3/4	504.06	3/4	867.67	3/4	1,230.82	3/4	1,594.44	3/4	1,958.07	3/4	2,321.71	3/4	2,685.32	3/4	3,048.82	3/4	3,412.32
5	148.01	5	511.63	5	875.25	5	1,238.39	5	1,602.02	5	1,965.65	5	2,329.28	5	2,692.89	5	3,056.39	5	3,419.89
1/4	155.59	1/4	519.21	1/4	882.83	1/4	1,245.96	1/4	1,609.59	1/4	1,973.23	1/4	2,336.86	1/4	2,700.46	1/4	3,063.96	1/4	3,427.46
1/2	163.16	1/2	526.78	1/2	890.40	1/2	1,253.54	1/2	1,617.17	1/2	1,980.80	1/2	2,344.44	1/2	2,708.04	1/2	3,071.54	1/2	3,435.03
3/4	170.74	3/4	534.36	3/4	897.98	3/4	1,261.11	3/4	1,624.74	3/4	1,988.38	3/4	2,352.01	3/4	2,715.61	3/4	3,079.11	3/4	3,442.61
6	178.31	6	541.93	6	905.55	6	1,268.69	6	1,632.32	6	1,995.93	6	2,359.59	6	2,723.18	6	3,086.68	6	3,450.18
1/4	185.89	1/4	549.51	1/4	913.13	1/4	1,276.26	1/4	1,639.90	1/4	2,003.53	1/4	2,367.16	1/4	2,730.75	1/4	3,094.25	1/4	3,457.75
1/2	193.46	1/2	557.08	1/2	920.70	1/2	1,283.84	1/2	1,647.47	1/2	2,011.10	1/2	2,374.74	1/2	2,738.33	1/2	3,101.83	1/2	3,465.33
3/4	201.04	3/4	564.66	3/4	928.28	3/4	1,291.41	3/4	1,655.05	3/4	2,018.68	3/4	2,382.31	3/4	2,745.90	3/4	3,109.40	3/4	3,472.90
7	208.62	7	572.23	7	935.85	7	1,298.99	7	1,662.62	7	2,026.26	7	2,389.89	7	2,753.47	7	3,116.97	7	3,480.47
1/4	216.19	1/4	579.81	1/4	943.42	1/4	1,306.56	1/4	1,670.20	1/4	2,033.83	1/4	2,397.47	1/4	2,761.05	1/4	3,124.55	1/4	3,488.04
1/2	223.77	1/2	587.39	1/2	950.98	1/2	1,314.14	1/2	1,677.77	1/2	2,041.41	1/2	2,405.04	1/2	2,768.62	1/2	3,132.12	1/2	3,495.62
3/4	231.34	3/4	594.96	3/4	958.55	3/4	1,321.22	3/4	1,685.35	3/4	2,048.98	3/4	2,412.62	3/4	2,776.19	3/4	3,139.69	3/4	3,503.19
8	238.92	8	602.54	8	966.11	8	1,329.29	8	1,692.93	8	2,056.56	8	2,420.19	8	2,783.77	8	3,147.26	8	3,510.76
1/4	246.49	1/4	610.11	1/4	973.67	1/4	1,336.87	1/4	1,700.50	1/4	2,064.13	1/4	2,427.77	1/4	2,791.34	1/4	3,154.84	1/4	3,518.34
1/2	254.07	1/2	617.69	1/2	981.24	1/2	1,344.44	1/2	1,708.08	1/2	2,071.71	1/2	2,435.34	1/2	2,798.91	1/2	3,162.41	1/2	3,525.91
3/4	261.64	3/4	625.26	3/4	988.80	3/4	1,352.02	3/4	1,715.65	3/4	2,079.29	3/4	2,442.92	3/4	2,806.48	3/4	3,169.98	3/4	3,533.48
9	269.22	9	632.84	9	996.36	9	1,359.59	9	1,723.23	9	2,086.86	9	2,450.50	9	2,814.06	9	3,177.56	9	3,541.06
1/4	276.79	1/4	640.41	1/4	1,003.93	1/4	1,367.17	1/4	1,730.80	1/4	2,094.44	1/4	2,458.07	1/4	2,821.63	1/4	3,185.13	1/4	3,548.63
1/2	284.37	1/2	647.99	1/2	1,011.49	1/2	1,374.75	1/2	1,738.38	1/2	2,102.01	1/2	2,465.65	1/2	2,829.20	1/2	3,192.70	1/2	3,556.20
3/4	291.94	3/4	655.56	3/4	1,019.05	3/4	1,382.32	3/4	1,745.96	3/4	2,109.59	3/4	2,473.22	3/4	2,836.78	3/4	3,200.27	3/4	3,563.77
10	299.52	10	663.14	10	1,026.62	10	1,389.90	10	1,753.53	10	2,117.16	10	2,480.80	10	2,844.35	10	3,207.85	10	3,571.35
1/4	307.10	1/4	670.71	1/4	1,034.18	1/4	1,397.47	1/4	1,761.11	1/4	2,124.74	1/4	2,488.37	1/4	2,851.92	1/4	3,215.42	1/4	3,578.92
1/2	314.67	1/2	678.29	1/2	1,041.74	1/2	1,405.55	1/2	1,768.68	1/2	2,132.32	1/2	2,495.95	1/2	2,859.49	1/2	3,222.99	1/2	3,586.49
3/4	322.25	3/4	686.87	3/4	1,049.31	3/4	1,412.62	3/4	1,776.26	3/4	2,139.89	3/4	2,503.53	3/4	2,867.07	3/4	3,230.57	3/4	3,594.07
11	329.82	11	693.44	11	1,056.87	11	1,420.20	11	1,783.83	11	2,147.47	11	2,511.10	11	2,874.64	11	3,238.14	11	3,601.64
1/4	337.40	1/4	701.02	1/4	1,064.43	1/4	1,427.78	1/4	1,791.41	1/4	2,155.04	1/4	2,518.68	1/4	2,882.21	1/4	3,245.71	1/4	3,609.21
1/2	344.97	1/2	708.59	1/2	1,072.00	1/2	1,435.35	1/2	1,798.98	1/2	2,162.62	1/2	2,526.25	1/2	2,889.79	1/2	3,253.28	1/2	3,616.78
3/4	352.55	3/4	716.17	3/4	1,079.56	3/4	1,442.93	3/4	1,806.56	3/4	2,170.19	3/4	2,533.83	3/4	2,897.36	3/4	3,260.96	3/4	3,624.36

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP UP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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BARGE "EMS 523"

1 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												HULL # C-1247												GAUGE HEIGHT 15'-08-1/2"											
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.																
0	3,631.93	0	3,995.39	0	4,351.28	0	4,693.89	0	5,021.73	0		0		0		0		0																	
1/4	3,639.50	1/4	4,002.93	1/4	4,358.54	1/4	4,700.88	1/4	5,028.35	1/4		1/4		1/4		1/4		1/4																	
1/2	3,647.08	1/2	4,010.47	1/2	4,365.81	1/2	4,707.87	1/2	5,034.96	1/2		1/2		1/2		1/2		1/2																	
3/4	3,654.65	3/4	4,018.01	3/4	4,373.07	3/4	4,714.86	3/4	5,041.57	3/4		3/4		3/4		3/4		3/4																	
1	3,662.22	1	4,025.55	1	4,380.34	1	4,721.84	1	5,048.19	1		1		1		1		1																	
1/4	3,669.79	1/4	4,033.07	1/4	4,387.58	1/4	4,728.78	1/4	5,054.77	1/4		1/4		1/4		1/4		1/4																	
1/2	3,677.37	1/2	4,040.59	1/2	4,394.82	1/2	4,735.72	1/2	5,061.36	1/2		1/2		1/2		1/2		1/2																	
3/4	3,684.94	3/4	4,048.10	3/4	4,402.06	3/4	4,742.66	3/4	5,067.95	3/4		3/4		3/4		3/4		3/4																	
2	3,692.51	2	4,055.62	2	4,409.30	2	4,749.60	2	5,074.54	2		2		2		2		2																	
1/4	3,700.09	1/4	4,063.12	1/4	4,416.52	1/4	4,756.51	1/4	5,081.11	1/4		1/4		1/4		1/4		1/4																	
1/2	3,707.66	1/2	4,070.61	1/2	4,423.74	1/2	4,763.43	1/2	5,087.68	1/2		1/2		1/2		1/2		1/2																	
3/4	3,715.23	3/4	4,078.11	3/4	4,430.96	3/4	4,770.34	3/4	5,094.24	3/4		3/4		3/4		3/4		3/4																	
3	3,722.80	3	4,085.60	3	4,438.18	3	4,777.25	3	5,100.81	3		3		3		3		3																	
1/4	3,730.38	1/4	4,093.08	1/4	4,445.37	1/4	4,784.14	1/4	5,107.35	1/4		1/4		1/4		1/4		1/4																	
1/2	3,737.95	1/2	4,100.55	1/2	4,452.57	1/2	4,791.03	1/2	5,113.90	1/2		1/2		1/2		1/2		1/2																	
3/4	3,745.52	3/4	4,108.02	3/4	4,459.76	3/4	4,797.92	3/4	5,120.44	3/4		3/4		3/4		3/4		3/4																	
4	3,753.10	4	4,115.49	4	4,466.96	4	4,804.81	4	5,126.98	4		4		4		4		4																	
1/4	3,760.67	1/4	4,122.94	1/4	4,474.13	1/4	4,811.68	1/4	5,133.50	1/4		1/4		1/4		1/4		1/4																	
1/2	3,768.24	1/2	4,130.39	1/2	4,481.30	1/2	4,818.54	1/2	5,140.03	1/2		1/2		1/2		1/2		1/2																	
3/4	3,775.82	3/4	4,137.84	3/4	4,488.47	3/4	4,825.41	3/4	5,146.55	3/4		3/4		3/4		3/4		3/4																	
5	3,783.39	5	4,145.29	5	4,495.65	5	4,832.28	5	5,153.07	5		5		5		5		5																	
1/4	3,790.96	1/4	4,152.71	1/4	4,502.80	1/4	4,839.12	1/4	5,160.28	1/4		1/4		1/4		1/4		1/4																	
1/2	3,798.53	1/2	4,160.14	1/2	4,509.95	1/2	4,845.96	1/2	5,167.50	1/2		1/2		1/2		1/2		1/2																	
3/4	3,806.11	3/4	4,167.57	3/4	4,517.09	3/4	4,852.81	3/4	5,174.72	3/4		3/4		3/4		3/4		3/4																	
6	3,813.68	6	4,174.99	6	4,524.24	6	4,859.65	6	5,181.93	6		6		6		6		6																	
1/4	3,821.25	1/4	4,182.39	1/4	4,531.37	1/4	4,866.47	1/4	5,188.28	1/4		1/4		1/4		1/4		1/4																	
1/2	3,828.83	1/2	4,189.80	1/2	4,538.50	1/2	4,873.29	1/2	5,194.63	1/2		1/2		1/2		1/2		1/2																	
3/4	3,836.40	3/4	4,197.20	3/4	4,545.62	3/4	4,880.11	3/4	5,200.98	3/4		3/4		3/4		3/4		3/4																	
7	3,843.97	7	4,204.60	7	4,552.75	7	4,886.93	7	5,207.33	7		7		7		7		7																	
1/4	3,851.54	1/4	4,211.98	1/4	4,559.85	1/4	4,893.73	1/4	5,212.46	1/4		1/4		1/4		1/4		1/4																	
1/2	3,859.12	1/2	4,219.36	1/2	4,566.96	1/2	4,900.53	1/2	5,217.59	1/2		1/2		1/2		1/2		1/2																	
3/4	3,866.69	3/4	4,226.74	3/4	4,574.06	3/4	4,907.32	3/4	5,222.73	3/4		3/4		3/4		3/4		3/4																	
8	3,874.26	8	4,234.12	8	4,581.16	8	4,914.12	8	5,227.86	8		8		8		8		8																	
1/4	3,881.84	1/4	4,241.48	1/4	4,588.24	1/4	4,920.90	1/4	5,233.00	1/4		1/4		1/4		1/4		1/4																	
1/2	3,889.41	1/2	4,248.84	1/2	4,595.32	1/2	4,927.67	1/2	5,238.13	1/2		1/2		1/2		1/2		1/2																	
3/4	3,896.98	3/4	4,256.19	3/4	4,602.40	3/4	4,934.44	3/4	5,243.26	3/4		3/4		3/4		3/4		3/4																	
9	3,904.55	9	4,263.55	9	4,609.48	9	4,941.22	9	5,248.39	9		9		9		9		9																	
1/4	3,912.13	1/4	4,270.88	1/4	4,616.54	1/4	4,947.97	1/4	5,253.52	1/4		1/4		1/4		1/4		1/4																	
1/2	3,919.70	1/2	4,278.22	1/2	4,623.60	1/2	4,954.73	1/2	5,258.65	1/2		1/2		1/2		1/2		1/2																	
3/4	3,927.27	3/4	4,285.55	3/4	4,630.65	3/4	4,961.48	3/4	5,263.78	3/4		3/4		3/4		3/4		3/4																	
10	3,934.85	10	4,292.88	10	4,637.71	10	4,968.23	10	5,268.91	10		10		10		10		10																	
1/4	3,942.42	1/4	4,300.19	1/4	4,644.75	1/4	4,974.96	1/4	5,274.04	1/4		1/4		1/4		1/4		1/4																	
1/2	3,949.99	1/2	4,307.51	1/2	4,651.78	1/2	4,981.69	1/2	5,279.17	1/2		1/2		1/2		1/2		1/2																	
3/4	3,957.56	3/4	4,314.82	3/4	4,658.81	3/4	4,988.42	3/4	5,284.30	3/4		3/4		3/4		3/4		3/4																	
11	3,965.14	11	4,322.13	11	4,665.85	11	4,995.16	11	5,289.43	11		11		11		11		11																	
1/4	3,972.70	1/4	4,329.41	1/4	4,672.86	1/4	5,001.80	1/4	5,294.56	1/4		1/4		1/4		1/4		1/4																	
1/2	3,980.26	1/2	4,336.70	1/2	4,679.87	1/2	5,008.44	1/2	5,299.69	1/2		1/2		1/2		1/2		1/2																	
3/4	3,987.82	3/4	4,343.99	3/4	4,686.88	3/4	5,015.09	3/4	5,304.82	3/4		3/4		3/4		3/4		3/4																	



BARGE "EMS 523"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS																				HULL # C-1247										GAUGE HEIGHT 15'-07 3/4"									
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.																				
0	21.45	0	360.12	0	723.74	0	1,087.12	0	1,450.50	0	1,814.14	0	2,177.77	0	2,541.40	0	2,904.93	0	3,268.43																				
1/4	25.71	1/4	367.70	1/4	731.32	1/4	1,094.69	1/4	1,458.08	1/4	1,821.71	1/4	2,185.35	1/4	2,548.98	1/4	2,912.50	1/4	3,276.00																				
1/2	29.97	1/2	375.27	1/2	738.89	1/2	1,102.25	1/2	1,465.65	1/2	1,829.29	1/2	2,192.92	1/2	2,556.55	1/2	2,920.08	1/2	3,283.58																				
3/4	34.23	3/4	382.85	3/4	746.47	3/4	1,109.81	3/4	1,473.23	3/4	1,836.86	3/4	2,200.50	3/4	2,567.65	3/4	2,937.65	3/4	3,291.15																				
1	38.49	1	390.42	1	754.04	1	1,117.38	1	1,480.81	1	1,844.44	1	2,208.07	1	2,571.71	1	2,935.22	1	3,298.72																				
1/4	44.01	1/4	398.00	1/4	761.62	1/4	1,124.94	1/4	1,488.38	1/4	1,852.01	1/4	2,215.65	1/4	2,579.28	1/4	2,942.80	1/4	3,306.30																				
1/2	49.53	1/2	405.58	1/2	769.19	1/2	1,132.50	1/2	1,495.96	1/2	1,859.59	1/2	2,223.22	1/2	2,586.86	1/2	2,950.37	1/2	3,313.87																				
3/4	55.06	3/4	413.15	3/4	776.77	3/4	1,140.07	3/4	1,503.53	3/4	1,867.17	3/4	2,230.80	3/4	2,594.43	3/4	2,957.94	3/4	3,321.44																				
2	60.58	2	420.73	2	784.35	2	1,147.63	2	1,511.11	2	1,874.74	2	2,238.38	2	2,602.01	2	2,965.51	2	3,329.01																				
1/4	67.37	1/4	428.30	1/4	791.92	1/4	1,155.19	1/4	1,518.68	1/4	1,882.32	1/4	2,245.95	1/4	2,609.58	1/4	2,973.09	1/4	3,336.59																				
1/2	74.15	1/2	435.88	1/2	799.50	1/2	1,162.75	1/2	1,526.66	1/2	1,889.89	1/2	2,253.53	1/2	2,617.16	1/2	2,980.66	1/2	3,344.16																				
3/4	80.94	3/4	443.45	3/4	807.07	3/4	1,170.32	3/4	1,533.84	3/4	1,897.47	3/4	2,261.10	3/4	2,624.74	3/4	2,988.23	3/4	3,351.73																				
3	87.72	3	451.03	3	814.65	3	1,177.88	3	1,541.41	3	1,905.04	3	2,268.68	3	2,632.31	3	2,995.81	3	3,359.31																				
1/4	95.22	1/4	458.60	1/4	822.22	1/4	1,185.44	1/4	1,548.99	1/4	1,912.62	1/4	2,276.25	1/4	2,639.88	1/4	3,003.38	1/4	3,366.88																				
1/2	102.72	1/2	466.18	1/2	829.80	1/2	1,193.01	1/2	1,556.56	1/2	1,920.20	1/2	2,283.83	1/2	2,647.46	1/2	3,010.95	1/2	3,374.45																				
3/4	110.21	3/4	473.75	3/4	837.37	3/4	1,200.57	3/4	1,564.14	3/4	1,927.77	3/4	2,291.41	3/4	2,655.03	3/4	3,018.53	3/4	3,382.02																				
4	117.71	4	481.33	4	844.95	4	1,208.13	4	1,571.71	4	1,935.35	4	2,298.98	4	2,662.60	4	3,026.10	4	3,389.60																				
1/4	125.29	1/4	488.90	1/4	852.52	1/4	1,215.70	1/4	1,579.29	1/4	1,942.92	1/4	2,306.56	1/4	2,670.17	1/4	3,033.67	1/4	3,397.17																				
1/2	132.86	1/2	496.48	1/2	860.10	1/2	1,223.26	1/2	1,586.87	1/2	1,950.50	1/2	2,314.13	1/2	2,677.74	1/2	3,041.24	1/2	3,404.74																				
3/4	140.44	3/4	504.06	3/4	867.67	3/4	1,230.82	3/4	1,594.44	3/4	1,958.07	3/4	2,321.71	3/4	2,685.32	3/4	3,048.82	3/4	3,412.32																				
5	148.01	5	511.63	5	875.25	5	1,238.39	5	1,602.02	5	1,965.65	5	2,329.28	5	2,692.89	5	3,056.39	5	3,419.89																				
1/4	155.59	1/4	519.21	1/4	882.83	1/4	1,245.96	1/4	1,609.59	1/4	1,973.23	1/4	2,336.86	1/4	2,700.46	1/4	3,063.96	1/4	3,427.46																				
1/2	163.16	1/2	526.78	1/2	890.40	1/2	1,253.54	1/2	1,617.17	1/2	1,980.80	1/2	2,344.44	1/2	2,708.04	1/2	3,071.54	1/2	3,435.03																				
3/4	170.74	3/4	534.36	3/4	897.98	3/4	1,261.11	3/4	1,624.74	3/4	1,988.38	3/4	2,352.01	3/4	2,715.61	3/4	3,079.11	3/4	3,442.61																				
6	178.31	6	541.93	6	905.55	6	1,268.69	6	1,632.32	6	1,995.95	6	2,359.59	6	2,723.18	6	3,086.68	6	3,450.18																				
1/4	185.89	1/4	549.51	1/4	913.13	1/4	1,276.26	1/4	1,639.90	1/4	2,003.53	1/4	2,367.16	1/4	2,730.75	1/4	3,094.25	1/4	3,457.75																				
1/2	193.46	1/2	557.08	1/2	920.70	1/2	1,283.84	1/2	1,647.47	1/2	2,011.10	1/2	2,374.74	1/2	2,736.33	1/2	3,101.83	1/2	3,465.33																				
3/4	201.04	3/4	564.66	3/4	928.28	3/4	1,291.41	3/4	1,655.05	3/4	2,018.68	3/4	2,382.31	3/4	2,745.90	3/4	3,109.40	3/4	3,472.90																				
7	208.62	7	572.23	7	935.85	7	1,298.99	7	1,662.62	7	2,026.26	7	2,389.89	7	2,753.47	7	3,116.97	7	3,480.47																				
1/4	216.19	1/4	579.81	1/4	943.42	1/4	1,306.56	1/4	1,670.20	1/4	2,033.83	1/4	2,397.47	1/4	2,761.05	1/4	3,124.55	1/4	3,488.04																				
1/2	223.77	1/2	587.39	1/2	950.98	1/2	1,314.14	1/2	1,677.77	1/2	2,041.41	1/2	2,405.04	1/2	2,768.62	1/2	3,132.12	1/2	3,495.62																				
3/4	231.34	3/4	594.96	3/4	958.55	3/4	1,321.72	3/4	1,685.35	3/4	2,048.98	3/4	2,412.62	3/4	2,776.19	3/4	3,139.69	3/4	3,503.19																				
8	238.92	8	602.54	8	966.11	8	1,329.29	8	1,692.93	8	2,056.56	8	2,420.19	8	2,783.77	8	3,147.26	8	3,510.76																				
1/4	246.49	1/4	610.11	1/4	973.67	1/4	1,336.87	1/4	1,700.50	1/4	2,064.13	1/4	2,427.77	1/4	2,791.34	1/4	3,154.84	1/4	3,518.34																				
1/2	254.07	1/2	617.69	1/2	981.24	1/2	1,344.44	1/2	1,708.08	1/2	2,071.71	1/2	2,435.34	1/2	2,798.91	1/2	3,162.41	1/2	3,525.91																				
3/4	261.64	3/4	625.26	3/4	988.80	3/4	1,352.02	3/4	1,715.65	3/4	2,079.29	3/4	2,442.92	3/4	2,806.48	3/4	3,169.98	3/4	3,533.48																				
9	269.22	9	632.84	9	996.36	9	1,359.59	9	1,723.23	9	2,086.86	9	2,450.50	9	2,814.06	9	3,177.56	9	3,541.06																				
1/4	276.79	1/4	640.41	1/4	1,003.93	1/4	1,367.17	1/4	1,730.80	1/4	2,094.44	1/4	2,458.07	1/4	2,821.63	1/4	3,185.13	1/4	3,548.63																				
1/2	284.37	1/2	647.99	1/2	1,011.49	1/2	1,374.75	1/2	1,738.38	1/2	2,102.01	1/2	2,465.65	1/2	2,829.20	1/2	3,192.72	1/2	3,556.20																				
3/4	291.94	3/4	655.56	3/4	1,019.05	3/4	1,382.32	3/4	1,745.96	3/4	2,109.59	3/4	2,473.22	3/4	2,836.78	3/4	3,200.27	3/4	3,563.77																				
10	299.52	10	663.14	10	1,026.62	10	1,389.90	10	1,753.53	10	2,117.16	10	2,480.80	10	2,844.35	10	3,207.85	10	3,571.35																				
1/4	307.10	1/4	670.71	1/4	1,034.18	1/4	1,397.47	1/4	1,761.11	1/4	2,124.74	1/4	2,488.37	1/4	2,851.92	1/4	3,215.42	1/4	3,578.92																				
1/2	314.67	1/2	678.29	1/2	1,041.74	1/2	1,405.05	1/2	1,768.68	1/2	2,132.32	1/2	2,495.95	1/2	2,859.49	1/2	3,222.99	1/2	3,586.49																				
3/4	322.25	3/4	685.87	3/4	1,049.31	3/4	1,412.62	3/4	1,776.26	3/4	2,139.89	3/4	2,503.53	3/4	2,867.07	3/4	3,230.57	3/4	3,594.07																				
11	329.82	11	693.44	11	1,056.87	11	1,420.20	11	1,783.83	11	2,147.47	11	2,511.10	11	2,874.64	11	3,238.14	11	3,601.64																				
1/4	337.40	1/4	701.02	1/4	1,064.43	1/4	1,421.78	1/4	1,791.41	1/4	2,155.04	1/4	2,528.65	1/4	2,882.21	1/4	3,245.71	1/4	3,609.21																				
1/2	344.97	1/2	708.59	1/2	1,072.00	1/2	1,435.35	1/2	1,798.98	1/2	2,162.62	1/2	2,536.28	1/2	2,897.36	1/2	3,253.28	1/2	3,616.78																				
3/4	352.55	3/4	716.17	3/4	1,079.56	3/4	1,442.93	3/4	1,806.56	3/4	2,170.19	3/4	2,533.83	3/4	2,897.36	3/4	3,260.86	3/4	3,624.36																				



BARGE "EMS 523"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1247

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.38	0	358.94	0	721.37	0	1,083.56	0	1,445.75	0	1,808.19	0	2,170.64	0	2,533.08	0	2,895.41	0	3,257.72
1/4	25.63	1/4	366.49	1/4	728.92	1/4	1,091.10	1/4	1,453.30	1/4	1,815.74	1/4	2,178.19	1/4	2,540.63	1/4	2,902.96	1/4	3,265.27
1/2	29.87	1/2	374.05	1/2	736.47	1/2	1,098.64	1/2	1,460.85	1/2	1,823.30	1/2	2,185.74	1/2	2,548.18	1/2	2,910.51	1/2	3,272.82
3/4	34.12	3/4	381.60	3/4	744.02	3/4	1,106.18	3/4	1,468.40	3/4	1,830.85	3/4	2,193.29	3/4	2,555.73	3/4	2,918.06	3/4	3,280.37
1	38.36	1	389.15	1	751.58	1	1,113.71	1	1,475.95	1	1,838.40	1	2,200.84	1	2,563.28	1	2,925.61	1	3,287.91
1/4	42.87	1/4	396.70	1/4	759.33	1/4	1,121.25	1/4	1,483.50	1/4	1,845.95	1/4	2,208.39	1/4	2,570.83	1/4	2,933.15	1/4	3,295.46
1/2	49.37	1/2	404.25	1/2	766.68	1/2	1,128.79	1/2	1,491.06	1/2	1,853.50	1/2	2,215.94	1/2	2,578.39	1/2	2,940.70	1/2	3,303.01
3/4	54.88	3/4	411.80	3/4	774.23	3/4	1,136.53	3/4	1,498.61	3/4	1,861.05	3/4	2,223.49	3/4	2,585.94	3/4	2,948.25	3/4	3,310.56
2	60.38	2	419.35	2	781.78	2	1,143.87	2	1,506.16	2	1,868.60	2	2,231.04	2	2,593.49	2	2,955.80	2	3,318.11
1/4	67.15	1/4	426.90	1/4	789.33	1/4	1,151.41	1/4	1,513.71	1/4	1,876.15	1/4	2,238.59	1/4	2,601.04	1/4	2,963.35	1/4	3,325.66
1/2	73.91	1/2	434.45	1/2	796.88	1/2	1,158.94	1/2	1,521.26	1/2	1,883.70	1/2	2,246.15	1/2	2,608.59	1/2	2,970.89	1/2	3,333.20
3/4	80.67	3/4	442.00	3/4	804.43	3/4	1,166.48	3/4	1,528.81	3/4	1,891.25	3/4	2,253.70	3/4	2,616.14	3/4	2,978.44	3/4	3,340.75
3	87.44	3	449.55	3	811.98	3	1,174.02	3	1,536.36	3	1,898.80	3	2,261.25	3	2,623.69	3	2,985.99	3	3,348.30
1/4	94.91	1/4	457.10	1/4	819.53	1/4	1,181.56	1/4	1,543.91	1/4	1,906.36	1/4	2,268.80	1/4	2,631.24	1/4	2,993.54	1/4	3,355.85
1/2	102.38	1/2	464.65	1/2	827.08	1/2	1,189.10	1/2	1,551.46	1/2	1,913.91	1/2	2,276.35	1/2	2,638.78	1/2	3,001.09	1/2	3,363.40
3/4	109.85	3/4	472.20	3/4	834.63	3/4	1,196.64	3/4	1,559.01	3/4	1,921.46	3/4	2,283.90	3/4	2,646.33	3/4	3,008.63	3/4	3,370.94
4	117.32	4	479.75	4	842.18	4	1,204.18	4	1,566.56	4	1,929.01	4	2,291.45	4	2,653.87	4	3,016.18	4	3,378.49
1/4	124.88	1/4	487.30	1/4	849.73	1/4	1,211.71	1/4	1,574.12	1/4	1,936.56	1/4	2,299.00	1/4	2,661.42	1/4	3,023.73	1/4	3,386.04
1/2	132.43	1/2	494.85	1/2	857.28	1/2	1,219.25	1/2	1,581.67	1/2	1,944.11	1/2	2,306.55	1/2	2,668.97	1/2	3,031.28	1/2	3,393.59
3/4	139.98	3/4	502.41	3/4	864.83	3/4	1,226.79	3/4	1,589.22	3/4	1,951.66	3/4	2,314.10	3/4	2,676.52	3/4	3,038.83	3/4	3,401.14
5	147.53	5	509.96	5	872.38	5	1,234.33	5	1,596.77	5	1,959.21	5	2,321.65	5	2,684.07	5	3,046.38	5	3,408.68
1/4	155.08	1/4	517.51	1/4	879.94	1/4	1,241.88	1/4	1,604.32	1/4	1,966.76	1/4	2,329.21	1/4	2,691.61	1/4	3,053.92	1/4	3,416.23
1/2	162.63	1/2	525.06	1/2	887.49	1/2	1,249.43	1/2	1,611.87	1/2	1,974.31	1/2	2,336.76	1/2	2,699.16	1/2	3,061.47	1/2	3,423.78
3/4	170.18	3/4	532.61	3/4	895.04	3/4	1,256.98	3/4	1,619.42	3/4	1,981.86	3/4	2,344.31	3/4	2,706.71	3/4	3,069.02	3/4	3,431.33
6	177.73	6	540.16	6	902.59	6	1,264.53	6	1,626.97	6	1,989.42	6	2,351.86	6	2,714.26	6	3,076.57	6	3,438.88
1/4	185.28	1/4	547.71	1/4	910.14	1/4	1,272.08	1/4	1,634.52	1/4	1,996.97	1/4	2,359.41	1/4	2,721.81	1/4	3,084.12	1/4	3,446.42
1/2	192.83	1/2	555.26	1/2	917.69	1/2	1,279.63	1/2	1,642.07	1/2	2,004.52	1/2	2,366.96	1/2	2,729.36	1/2	3,091.66	1/2	3,453.97
3/4	200.38	3/4	562.81	3/4	925.24	3/4	1,287.18	3/4	1,649.62	3/4	2,012.07	3/4	2,374.51	3/4	2,736.90	3/4	3,099.21	3/4	3,461.52
7	207.93	7	570.36	7	932.79	7	1,294.73	7	1,657.18	7	2,019.62	7	2,382.06	7	2,744.45	7	3,106.76	7	3,469.07
1/4	215.48	1/4	577.91	1/4	940.33	1/4	1,302.28	1/4	1,664.73	1/4	2,027.17	1/4	2,389.61	1/4	2,752.00	1/4	3,114.31	1/4	3,476.62
1/2	223.03	1/2	585.46	1/2	947.87	1/2	1,309.83	1/2	1,672.28	1/2	2,034.72	1/2	2,397.16	1/2	2,759.55	1/2	3,121.86	1/2	3,484.17
3/4	230.58	3/4	593.01	3/4	955.41	3/4	1,317.38	3/4	1,679.83	3/4	2,042.27	3/4	2,404.71	3/4	2,767.10	3/4	3,129.40	3/4	3,491.71
8	238.13	8	600.56	8	962.94	8	1,324.94	8	1,687.38	8	2,049.82	8	2,412.27	8	2,774.64	8	3,136.95	8	3,499.26
1/4	245.68	1/4	608.11	1/4	970.48	1/4	1,332.49	1/4	1,694.93	1/4	2,057.37	1/4	2,419.82	1/4	2,782.19	1/4	3,144.50	1/4	3,506.81
1/2	253.24	1/2	615.66	1/2	978.02	1/2	1,340.04	1/2	1,702.48	1/2	2,064.92	1/2	2,427.37	1/2	2,789.74	1/2	3,152.05	1/2	3,514.36
3/4	260.79	3/4	623.21	3/4	985.56	3/4	1,347.59	3/4	1,710.03	3/4	2,072.47	3/4	2,434.92	3/4	2,797.29	3/4	3,159.60	3/4	3,521.91
9	268.34	9	630.77	9	993.10	9	1,355.14	9	1,717.58	9	2,080.03	9	2,442.47	9	2,804.84	9	3,167.15	9	3,529.45
1/4	275.89	1/4	638.32	1/4	1,000.64	1/4	1,362.69	1/4	1,725.13	1/4	2,087.58	1/4	2,450.02	1/4	2,812.38	1/4	3,174.69	1/4	3,537.00
1/2	283.44	1/2	645.87	1/2	1,008.17	1/2	1,370.24	1/2	1,732.68	1/2	2,095.13	1/2	2,457.57	1/2	2,819.93	1/2	3,182.24	1/2	3,544.55
3/4	290.99	3/4	653.42	3/4	1,015.71	3/4	1,377.79	3/4	1,740.24	3/4	2,102.68	3/4	2,465.12	3/4	2,827.48	3/4	3,189.79	3/4	3,552.10
10	298.54	10	660.97	10	1,023.25	10	1,385.34	10	1,747.79	10	2,110.23	10	2,472.67	10	2,835.03	10	3,197.34	10	3,559.65
1/4	306.09	1/4	668.52	1/4	1,030.79	1/4	1,392.89	1/4	1,755.34	1/4	2,117.78	1/4	2,480.22	1/4	2,842.58	1/4	3,204.89	1/4	3,567.19
1/2	313.64	1/2	676.07	1/2	1,038.33	1/2	1,400.44	1/2	1,762.89	1/2	2,125.33	1/2	2,487.77	1/2	2,850.12	1/2	3,212.43	1/2	3,574.74
3/4	321.19	3/4	683.62	3/4	1,045.87	3/4	1,408.00	3/4	1,770.44	3/4	2,132.88	3/4	2,495.33	3/4	2,857.67	3/4	3,219.98	3/4	3,582.29
11	328.74	11	691.17	11	1,053.41	11	1,415.55	11	1,777.99	11	2,140.43	11	2,502.88	11	2,865.22	11	3,227.53	11	3,589.84
1/4	336.29	1/4	698.72	1/4	1,060.94	1/4	1,423.10	1/4	1,785.54	1/4	2,147.98	1/4	2,510.43	1/4	2,872.77	1/4	3,235.08	1/4	3,597.39
1/2	343.84	1/2	706.27	1/2	1,068.48	1/2	1,430.65	1/2	1,793.09	1/2	2,155.53	1/2	2,517.98	1/2	2,880.32	1/2	3,242.63	1/2	3,604.93
3/4	351.39	3/4	713.82	3/4	1,076.02	3/4	1,438.20	3/4	1,800.64	3/4	2,163.09	3/4	2,525.53	3/4	2,887.87	3/4	3,250.17	3/4	3,612.48

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>

BARGE "EMS 523"

2 PORT IMAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1247

GAUGE HEIGHT 15'-08 1/4"

	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0		3,620.03	0	3,982.29	0	4,337.00	0	4,678.45	0	5,005.15	0			0			0		0	
1/4	1/4	3,627.58	1/4	3,989.81	1/4	4,344.24	1/4	4,685.42	1/4	5,011.74	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	3,635.13	1/2	3,997.33	1/2	4,351.48	1/2	4,692.38	1/2	5,018.33	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3,642.68	3/4	4,004.84	3/4	4,358.72	3/4	4,699.34	3/4	5,024.91	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1	3,650.22	1	4,012.36	1	4,365.96	1	4,706.31	1	5,031.50	1		1	1	1	1	1	1	1	1
1/4	1/4	3,657.77	1/4	4,019.85	1/4	4,373.18	1/4	4,713.22	1/4	5,038.07	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	3,665.32	1/2	4,027.35	1/2	4,380.40	1/2	4,720.14	1/2	5,044.64	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3,672.87	3/4	4,034.84	3/4	4,387.61	3/4	4,727.05	3/4	5,051.20	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2	3,680.42	2	4,042.33	2	4,394.83	2	4,733.97	2	5,057.77	2		2	2	2	2	2	2	2	2
1/4	1/4	3,687.96	1/4	4,049.80	1/4	4,402.03	1/4	4,740.86	1/4	5,064.31	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	3,695.51	1/2	4,057.27	1/2	4,409.22	1/2	4,747.75	1/2	5,070.85	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3,703.06	3/4	4,064.74	3/4	4,416.41	3/4	4,754.63	3/4	5,077.40	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3	3,710.61	3	4,072.21	3	4,423.61	3	4,761.52	3	5,083.94	3		3	3	3	3	3	3	3	3
1/4	1/4	3,718.16	1/4	4,079.66	1/4	4,430.78	1/4	4,768.39	1/4	5,090.46	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	3,725.70	1/2	4,087.11	1/2	4,437.95	1/2	4,775.25	1/2	5,096.98	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3,733.25	3/4	4,094.56	3/4	4,445.12	3/4	4,782.12	3/4	5,103.50	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	4	3,740.80	4	4,102.00	4	4,452.29	4	4,788.99	4	5,110.02	4		4	4	4	4	4	4	4	4
1/4	1/4	3,748.35	1/4	4,109.43	1/4	4,459.44	1/4	4,795.83	1/4	5,116.52	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	3,755.90	1/2	4,116.85	1/2	4,466.59	1/2	4,802.67	1/2	5,123.01	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3,763.44	3/4	4,124.28	3/4	4,473.74	3/4	4,809.51	3/4	5,129.51	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	5	3,770.99	5	4,131.70	5	4,480.88	5	4,816.36	5	5,136.01	5		5	5	5	5	5	5	5	5
1/4	1/4	3,778.54	1/4	4,139.10	1/4	4,488.01	1/4	4,823.18	1/4	5,143.20	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	3,786.09	1/2	4,146.50	1/2	4,495.13	1/2	4,830.00	1/2	5,150.39	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3,793.64	3/4	4,153.90	3/4	4,502.26	3/4	4,836.81	3/4	5,157.59	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	6	3,801.19	6	4,161.31	6	4,509.38	6	4,843.63	6	5,164.78	6		6	6	6	6	6	6	6	6
1/4	1/4	3,808.73	1/4	4,168.68	1/4	4,516.49	1/4	4,850.43	1/4	5,171.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	3,816.28	1/2	4,176.06	1/2	4,523.59	1/2	4,857.23	1/2	5,177.43	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3,823.83	3/4	4,183.44	3/4	4,530.69	3/4	4,864.02	3/4	5,183.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	7	3,831.38	7	4,190.82	7	4,537.79	7	4,870.82	7	5,190.09	7		7	7	7	7	7	7	7	7
1/4	1/4	3,838.93	1/4	4,198.17	1/4	4,544.87	1/4	4,877.59	1/4	5,195.21	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	3,846.47	1/2	4,205.53	1/2	4,551.93	1/2	4,884.37	1/2	5,200.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3,854.02	3/4	4,212.88	3/4	4,559.03	3/4	4,891.14	3/4	5,205.44	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	8	3,861.57	8	4,220.24	8	4,566.11	8	4,897.92	8	5,210.55	8		8	8	8	8	8	8	8	8
1/4	1/4	3,869.12	1/4	4,227.57	1/4	4,573.16	1/4	4,904.67	1/4	=====	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	3,876.67	1/2	4,234.90	1/2	4,580.22	1/2	4,911.42	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3,884.21	3/4	4,242.24	3/4	4,587.28	3/4	4,918.17	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	9	3,891.76	9	4,249.57	9	4,594.33	9	4,924.92	9		9		9	9	9	9	9	9	9	9
1/4	1/4	3,899.31	1/4	4,256.88	1/4	4,601.37	1/4	4,931.65	1/4	4,931.65	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	3,906.86	1/2	4,264.19	1/2	4,608.40	1/2	4,938.38	1/2	4,938.38	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3,914.41	3/4	4,271.50	3/4	4,615.43	3/4	4,945.11	3/4	4,945.11	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	10	3,921.96	10	4,278.81	10	4,622.46	10	4,951.84	10		10		10	10	10	10	10	10	10	10
1/4	1/4	3,929.50	1/4	4,286.09	1/4	4,629.47	1/4	4,958.54	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	3,937.05	1/2	4,293.38	1/2	4,636.48	1/2	4,965.25	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3,944.60	3/4	4,300.66	3/4	4,643.49	3/4	4,971.96	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	11	3,952.15	11	4,307.95	11	4,650.50	11	4,976.66	11		11		11	11	11	11	11	11	11	11
1/4	1/4	3,959.68	1/4	4,315.21	1/4	4,657.49	1/4	4,985.28	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1/2	3,967.22	1/2	4,322.48	1/2	4,664.48	1/2	4,991.91	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3/4	3,974.76	3/4	4,329.74	3/4	4,671.46	3/4	4,998.53	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 04/27/2020 CL
CALCULATED: 04/28/2020 CL

PRINTED: 04/28/2020 CL

**CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020**



BARGE "EMS 523"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												HULL #C-1247												GAUGE HEIGHT 15'-08"											
IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN															
0	21.33	0	358.15	0	719.78	0	1,073.37	0	1,426.64	0	1,788.28	0	2,149.92	0	2,511.55	0	2,873.10	0	3,234.61																
1/4	25.57	1/4	365.68	1/4	727.31	1/4	1,080.57	1/4	1,434.18	1/4	1,795.81	1/4	2,157.45	1/4	2,519.09	1/4	2,880.63	1/4	3,242.14																
1/2	29.81	1/2	373.22	1/2	734.85	1/2	1,087.76	1/2	1,441.71	1/2	1,803.35	1/2	2,164.98	1/2	2,526.62	1/2	2,888.16	1/2	3,249.67																
3/4	34.04	3/4	380.75	3/4	742.38	3/4	1,094.95	3/4	1,449.25	3/4	1,810.88	3/4	2,172.52	3/4	2,534.16	3/4	2,895.69	3/4	3,257.20																
1	38.28	1	388.29	1	749.91	1	1,102.14	1	1,456.78	1	1,818.42	1	2,180.05	1	2,541.69	1	2,903.22	1	3,264.73																
1/4	43.77	1/4	395.82	1/4	757.45	1/4	1,109.33	1/4	1,464.31	1/4	1,825.95	1/4	2,187.59	1/4	2,549.22	1/4	2,910.76	1/4	3,272.26																
1/2	49.26	1/2	403.35	1/2	764.98	1/2	1,116.52	1/2	1,471.85	1/2	1,833.48	1/2	2,195.12	1/2	2,556.76	1/2	2,918.29	1/2	3,279.79																
3/4	54.76	3/4	410.89	3/4	772.51	3/4	1,123.71	3/4	1,479.38	3/4	1,841.02	3/4	2,202.66	3/4	2,564.29	3/4	2,925.82	3/4	3,287.33																
2	60.25	2	418.42	2	780.05	2	1,130.90	2	1,486.92	2	1,848.55	2	2,210.19	2	2,571.83	2	2,933.35	2	3,294.86																
1/4	67.00	1/4	425.96	1/4	787.58	1/4	1,138.09	1/4	1,494.45	1/4	1,856.09	1/4	2,217.72	1/4	2,579.36	1/4	2,940.88	1/4	3,302.39																
1/2	73.75	1/2	433.49	1/2	795.12	1/2	1,145.28	1/2	1,501.98	1/2	1,863.62	1/2	2,225.26	1/2	2,586.89	1/2	2,948.41	1/2	3,309.92																
3/4	80.50	3/4	441.02	3/4	802.65	3/4	1,152.47	3/4	1,509.52	3/4	1,871.15	3/4	2,232.79	3/4	2,594.43	3/4	2,955.94	3/4	3,317.45																
3	87.24	3	448.56	3	810.18	3	1,159.66	3	1,517.05	3	1,878.69	3	2,240.33	3	2,601.96	3	2,963.47	3	3,324.98																
1/4	94.70	1/4	456.09	1/4	817.72	1/4	1,166.85	1/4	1,524.59	1/4	1,886.22	1/4	2,247.86	1/4	2,609.50	1/4	2,971.01	1/4	3,332.51																
1/2	102.15	1/2	463.62	1/2	825.25	1/2	1,174.04	1/2	1,532.12	1/2	1,893.76	1/2	2,255.39	1/2	2,617.03	1/2	2,978.54	1/2	3,340.04																
3/4	109.61	3/4	471.16	3/4	832.79	3/4	1,181.23	3/4	1,539.65	3/4	1,901.29	3/4	2,262.93	3/4	2,624.56	3/4	2,986.07	3/4	3,347.58																
4	117.07	4	478.69	4	840.32	4	1,188.42	4	1,547.19	4	1,908.83	4	2,270.46	4	2,632.09	4	2,993.60	4	3,355.11																
1/4	124.60	1/4	486.23	1/4	847.85	1/4	1,195.61	1/4	1,554.72	1/4	1,916.36	1/4	2,278.00	1/4	2,639.62	1/4	3,001.13	1/4	3,362.64																
1/2	132.13	1/2	493.76	1/2	855.39	1/2	1,202.80	1/2	1,562.26	1/2	1,923.89	1/2	2,285.53	1/2	2,647.16	1/2	3,008.66	1/2	3,370.17																
3/4	139.67	3/4	501.29	3/4	862.92	3/4	1,209.99	3/4	1,569.79	3/4	1,931.43	3/4	2,293.06	3/4	2,654.69	3/4	3,016.19	3/4	3,377.70																
5	147.20	5	508.83	5	870.46	5	1,217.18	5	1,577.33	5	1,938.96	5	2,300.60	5	2,662.22	5	3,023.73	5	3,385.23																
1/4	154.73	1/4	516.36	1/4	877.99	1/4	1,224.39	1/4	1,584.86	1/4	1,946.50	1/4	2,308.13	1/4	2,669.75	1/4	3,031.26	1/4	3,392.76																
1/2	162.27	1/2	523.90	1/2	885.52	1/2	1,231.59	1/2	1,592.39	1/2	1,954.03	1/2	2,315.67	1/2	2,677.28	1/2	3,038.79	1/2	3,400.30																
3/4	169.80	3/4	531.43	3/4	893.06	3/4	1,238.79	3/4	1,599.93	3/4	1,961.56	3/4	2,323.20	3/4	2,684.81	3/4	3,046.32	3/4	3,407.83																
6	177.34	6	538.96	6	900.59	6	1,245.99	6	1,607.46	6	1,969.10	6	2,330.74	6	2,692.34	6	3,053.85	6	3,415.36																
1/4	184.87	1/4	546.50	1/4	907.83	1/4	1,253.48	1/4	1,615.00	1/4	1,976.63	1/4	2,338.27	1/4	2,699.88	1/4	3,061.38	1/4	3,422.89																
1/2	192.40	1/2	554.03	1/2	915.07	1/2	1,260.98	1/2	1,622.53	1/2	1,984.17	1/2	2,345.80	1/2	2,707.41	1/2	3,068.91	1/2	3,430.42																
3/4	199.94	3/4	561.57	3/4	922.32	3/4	1,268.47	3/4	1,630.06	3/4	1,991.70	3/4	2,353.34	3/4	2,714.94	3/4	3,076.45	3/4	3,437.95																
7	207.47	7	568.10	7	929.56	7	1,275.96	7	1,637.60	7	1,999.23	7	2,360.87	7	2,722.47	7	3,083.98	7	3,445.48																
1/4	215.01	1/4	576.63	1/4	936.75	1/4	1,283.50	1/4	1,645.13	1/4	2,006.77	1/4	2,368.41	1/4	2,730.00	1/4	3,091.51	1/4	3,453.02																
1/2	222.54	1/2	584.17	1/2	943.94	1/2	1,291.03	1/2	1,652.67	1/2	2,014.30	1/2	2,375.94	1/2	2,737.53	1/2	3,099.04	1/2	3,460.55																
3/4	230.07	3/4	591.70	3/4	951.13	3/4	1,298.56	3/4	1,660.20	3/4	2,021.84	3/4	2,381.47	3/4	2,745.06	3/4	3,106.57	3/4	3,468.08																
8	237.61	8	598.24	8	958.33	8	1,306.10	8	1,667.73	8	2,029.37	8	2,391.01	8	2,752.60	8	3,114.10	8	3,475.61																
1/4	245.14	1/4	606.77	1/4	965.52	1/4	1,313.63	1/4	1,675.27	1/4	2,036.91	1/4	2,398.54	1/4	2,760.13	1/4	3,121.63	1/4	3,483.14																
1/2	252.68	1/2	614.30	1/2	972.71	1/2	1,321.17	1/2	1,682.80	1/2	2,044.44	1/2	2,406.08	1/2	2,767.66	1/2	3,129.17	1/2	3,490.67																
3/4	260.21	3/4	621.84	3/4	979.90	3/4	1,328.70	3/4	1,690.34	3/4	2,051.97	3/4	2,413.61	3/4	2,775.19	3/4	3,136.70	3/4	3,498.20																
9	267.74	9	628.37	9	987.09	9	1,336.23	9	1,697.87	9	2,059.51	9	2,421.14	9	2,782.72	9	3,144.23	9	3,505.74																
1/4	275.28	1/4	636.90	1/4	994.28	1/4	1,343.77	1/4	1,705.40	1/4	2,067.04	1/4	2,428.68	1/4	2,790.25	1/4	3,151.76	1/4	3,513.27																
1/2	282.81	1/2	644.44	1/2	1,001.47	1/2	1,351.30	1/2	1,712.94	1/2	2,074.58	1/2	2,436.21	1/2	2,797.78	1/2	3,159.29	1/2	3,520.80																
3/4	290.35	3/4	651.97	3/4	1,008.66	3/4	1,358.84	3/4	1,720.47	3/4	2,082.11	3/4	2,443.75	3/4	2,805.32	3/4	3,166.82	3/4	3,528.33																
10	297.88	10	659.51	10	1,015.85	10	1,366.37	10	1,728.01	10	2,089.64	10	2,451.28	10	2,812.85	10	3,174.35	10	3,535.86																
1/4	305.41	1/4	667.04	1/4	1,023.04	1/4	1,373.90	1/4	1,735.54	1/4	2,097.18	1/4	2,458.81	1/4	2,820.38	1/4	3,181.89	1/4	3,543.39																
1/2	312.95	1/2	674.57	1/2	1,030.23	1/2	1,381.44	1/2	1,743.08	1/2	2,104.71	1/2	2,466.35	1/2	2,827.91	1/2	3,189.42	1/2	3,550.92																
3/4	320.48	3/4	682.11	3/4	1,037.42	3/4	1,388.97	3/4	1,750.61	3/4	2,112.25	3/4	2,473.88	3/4	2,835.44	3/4	3,196.95	3/4	3,558.46																
11	328.01	11	689.64	11	1,044.61	11	1,396.51	11	1,758.14	11	2,119.78	11	2,481.42	11	2,842.97	11	3,204.48	11	3,565.99																
1/4	335.55	1/4	697.18	1/4	1,051.80	1/4	1,404.04	1/4	1,765.68	1/4	2,127.31	1/4	2,488.95	1/4	2,850.50	1/4	3,212.01	1/4	3,573.52																
1/2	343.08	1/2	704.71	1/2	1,058.99	1/2	1,411.57	1/2	1,773.21	1/2	2,134.85	1/2	2,496.49	1/2	2,858.04	1/2	3,219.54	1/2	3,581.05																
3/4	350.62	3/4	712.24	3/4	1,066.18	3/4	1,419.11	3/4	1,780.75	3/4	2,142.38	3/4	2,504.02	3/4	2,865.57	3/4	3,227.07	3/4	3,586.56																

Ch. Pearson



BARGE "EMS 523"

3 PORT INNAGE TABLE

CAPACITIES IN BARRELS OF 42 U.S. GALLONS

HULL #C-1247

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.31	0	357.75	0	718.96	0	1,079.97	0	1,441.03	0	1,802.26	0	2,163.47	0	2,524.61	0	2,885.56	0	3,245.63
1/4	25.54	1/4	365.27	1/4	726.49	1/4	1,087.49	1/4	1,448.56	1/4	1,809.79	1/4	2,170.99	1/4	2,532.14	1/4	2,893.07	1/4	3,253.10
1/2	29.77	1/2	372.80	1/2	734.01	1/2	1,095.00	1/2	1,456.08	1/2	1,817.31	1/2	2,178.51	1/2	2,539.66	1/2	2,900.58	1/2	3,260.58
3/4	34.01	3/4	380.32	3/4	741.54	3/4	1,102.52	3/4	1,463.61	3/4	1,824.84	3/4	2,186.04	3/4	2,547.18	3/4	2,908.09	3/4	3,268.05
1	38.24	1	387.85	1	749.06	1	1,110.04	1	1,471.14	1	1,832.36	1	2,193.56	1	2,554.71	1	2,915.60	1	3,275.53
1/4	43.72	1/4	395.37	1/4	756.59	1/4	1,125.07	1/4	1,478.66	1/4	1,839.89	1/4	2,201.09	1/4	2,562.23	1/4	2,923.11	1/4	3,283.00
1/2	48.21	1/2	402.90	1/2	761.64	1/2	1,132.58	1/2	1,486.19	1/2	1,847.42	1/2	2,208.61	1/2	2,569.76	1/2	2,930.62	1/2	3,290.48
3/4	54.70	3/4	410.42	3/4	771.64	3/4	1,138.58	3/4	1,493.71	3/4	1,854.94	3/4	2,216.13	3/4	2,577.28	3/4	2,938.13	3/4	3,297.96
2	60.18	2	417.95	2	779.16	2	1,140.10	2	1,501.24	2	1,862.47	2	2,223.66	2	2,584.80	2	2,945.64	2	3,305.43
1/4	66.93	1/4	425.47	1/4	786.69	1/4	1,147.62	1/4	1,508.76	1/4	1,869.99	1/4	2,231.18	1/4	2,592.33	1/4	2,953.15	1/4	3,312.91
1/2	73.67	1/2	433.00	1/2	794.21	1/2	1,155.13	1/2	1,516.26	1/2	1,877.52	1/2	2,238.70	1/2	2,599.85	1/2	2,960.66	1/2	3,320.38
3/4	80.41	3/4	440.52	3/4	801.74	3/4	1,162.65	3/4	1,523.82	3/4	1,885.04	3/4	2,246.23	3/4	2,607.38	3/4	2,968.17	3/4	3,327.86
3	87.15	3	448.05	3	809.26	3	1,170.17	3	1,531.34	3	1,892.57	3	2,253.75	3	2,614.90	3	2,975.68	3	3,335.33
1/4	94.80	1/4	455.58	1/4	816.79	1/4	1,177.68	1/4	1,538.87	1/4	1,900.10	1/4	2,261.28	1/4	2,622.42	1/4	2,983.19	1/4	3,342.82
1/2	102.04	1/2	463.10	1/2	824.31	1/2	1,185.20	1/2	1,546.39	1/2	1,907.62	1/2	2,268.80	1/2	2,629.94	1/2	2,990.70	1/2	3,350.31
3/4	109.49	3/4	470.63	3/4	831.84	3/4	1,192.71	3/4	1,553.92	3/4	1,915.15	3/4	2,276.32	3/4	2,637.46	3/4	2,998.20	3/4	3,357.80
4	116.94	4	478.15	4	839.37	4	1,200.23	4	1,561.44	4	1,922.67	4	2,283.85	4	2,644.98	4	3,005.71	4	3,365.29
1/4	124.46	1/4	485.68	1/4	846.89	1/4	1,207.75	1/4	1,568.97	1/4	1,930.20	1/4	2,291.37	1/4	2,652.51	1/4	3,013.22	1/4	3,372.78
1/2	131.99	1/2	493.20	1/2	854.42	1/2	1,215.27	1/2	1,576.49	1/2	1,937.72	1/2	2,298.90	1/2	2,660.03	1/2	3,020.73	1/2	3,380.27
3/4	139.51	3/4	500.73	3/4	861.94	3/4	1,222.80	3/4	1,584.02	3/4	1,945.25	3/4	2,306.42	3/4	2,667.55	3/4	3,028.24	3/4	3,387.76
5	147.04	5	508.25	5	869.47	5	1,230.32	5	1,591.55	5	1,952.77	5	2,313.94	5	2,675.07	5	3,035.75	5	3,395.25
1/4	154.56	1/4	515.78	1/4	876.99	1/4	1,237.84	1/4	1,599.07	1/4	1,960.30	1/4	2,321.47	1/4	2,682.60	1/4	3,043.26	1/4	3,402.74
1/2	162.09	1/2	523.30	1/2	884.52	1/2	1,245.37	1/2	1,606.60	1/2	1,967.83	1/2	2,328.99	1/2	2,690.12	1/2	3,050.77	1/2	3,410.23
3/4	169.61	3/4	530.83	3/4	892.04	3/4	1,252.89	3/4	1,614.12	3/4	1,975.35	3/4	2,336.52	3/4	2,697.64	3/4	3,058.28	3/4	3,417.72
6	177.14	6	538.35	6	899.57	6	1,260.42	6	1,621.65	6	1,982.88	6	2,344.04	6	2,705.16	6	3,065.79	6	3,425.21
1/4	184.66	1/4	545.88	1/4	907.09	1/4	1,267.94	1/4	1,629.17	1/4	1,990.40	1/4	2,351.56	1/4	2,712.69	1/4	3,073.30	1/4	3,432.71
1/2	192.19	1/2	553.40	1/2	914.61	1/2	1,275.47	1/2	1,636.70	1/2	1,997.93	1/2	2,359.09	1/2	2,720.21	1/2	3,080.81	1/2	3,440.20
3/4	199.72	3/4	560.93	3/4	922.13	3/4	1,283.00	3/4	1,644.22	3/4	2,005.45	3/4	2,366.61	3/4	2,727.73	3/4	3,088.32	3/4	3,447.69
7	207.24	7	568.45	7	929.65	7	1,290.52	7	1,651.75	7	2,012.98	7	2,374.14	7	2,735.25	7	3,095.83	7	3,455.18
1/4	214.77	1/4	575.98	1/4	937.16	1/4	1,298.05	1/4	1,659.28	1/4	2,020.50	1/4	2,381.66	1/4	2,742.78	1/4	3,103.34	1/4	3,462.67
1/2	222.29	1/2	583.51	1/2	944.68	1/2	1,305.57	1/2	1,666.80	1/2	2,028.03	1/2	2,389.18	1/2	2,750.30	1/2	3,110.85	1/2	3,470.16
3/4	229.82	3/4	591.03	3/4	952.20	3/4	1,313.10	3/4	1,674.33	3/4	2,035.56	3/4	2,396.71	3/4	2,757.82	3/4	3,118.36	3/4	3,477.65
8	237.34	8	598.56	8	959.71	8	1,320.62	8	1,681.85	8	2,043.08	8	2,404.23	8	2,765.34	8	3,125.87	8	3,485.14
1/4	244.87	1/4	606.08	1/4	967.23	1/4	1,328.15	1/4	1,689.38	1/4	2,050.61	1/4	2,411.75	1/4	2,772.87	1/4	3,133.38	1/4	3,492.63
1/2	252.39	1/2	613.61	1/2	974.75	1/2	1,335.68	1/2	1,696.90	1/2	2,058.13	1/2	2,419.28	1/2	2,780.39	1/2	3,140.89	1/2	3,500.12
3/4	259.92	3/4	621.13	3/4	982.26	3/4	1,343.20	3/4	1,704.43	3/4	2,065.65	3/4	2,426.80	3/4	2,787.91	3/4	3,148.40	3/4	3,507.61
9	267.44	9	628.66	9	989.78	9	1,350.73	9	1,711.96	9	2,073.18	9	2,434.33	9	2,795.44	9	3,155.91	9	3,515.11
1/4	274.97	1/4	636.18	1/4	997.29	1/4	1,358.25	1/4	1,719.48	1/4	2,080.70	1/4	2,441.85	1/4	2,802.95	1/4	3,163.39	1/4	3,519.58
1/2	282.49	1/2	643.71	1/2	1,004.81	1/2	1,365.78	1/2	1,727.01	1/2	2,088.23	1/2	2,449.37	1/2	2,810.46	1/2	3,170.87	1/2	3,524.06
3/4	290.02	3/4	651.23	3/4	1,012.33	3/4	1,373.30	3/4	1,734.53	3/4	2,095.75	3/4	2,456.92	3/4	2,817.97	3/4	3,178.35	3/4	3,528.54
10	297.54	10	658.76	10	1,019.84	10	1,380.83	10	1,742.06	10	2,103.27	10	2,464.40	10	2,825.48	10	3,185.83	10	3,533.02
1/4	305.07	1/4	666.28	1/4	1,027.36	1/4	1,388.35	1/4	1,749.58	1/4	2,110.80	1/4	2,471.95	1/4	2,832.99	1/4	3,193.30	1/4	3,537.07
1/2	312.59	1/2	673.81	1/2	1,034.88	1/2	1,395.88	1/2	1,757.11	1/2	2,118.32	1/2	2,479.47	1/2	2,840.50	1/2	3,200.78	1/2	3,541.12
3/4	320.12	3/4	681.33	3/4	1,042.39	3/4	1,403.41	3/4	1,764.63	3/4	2,125.85	3/4	2,486.99	3/4	2,848.01	3/4	3,208.25	3/4	3,545.17
11	327.65	11	688.86	11	1,049.91	11	1,410.93	11	1,772.16	11	2,133.37	11	2,494.52	11	2,855.52	11	3,215.73	11	3,549.22
1/4	335.17	1/4	696.38	1/4	1,057.42	1/4	1,418.46	1/4	1,779.69	1/4	2,140.89	1/4	2,502.04	1/4	2,863.03	1/4	3,223.20	1/4	3,553.27
1/2	342.70	1/2	703.91	1/2	1,064.94	1/2	1,425.98	1/2	1,787.21	1/2	2,148.42	1/2	2,509.57	1/2	2,870.54	1/2	3,230.68	1/2	3,557.32
3/4	350.22	3/4	711.44	3/4	1,072.46	3/4	1,433.51	3/4	1,794.74	3/4	2,155.94	3/4	2,517.09	3/4	2,878.05	3/4	3,238.15	3/4	3,561.37

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH NIPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "EMS 523"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS												HULL # C-1247												GAUGE HEIGHT 15'-08 1/4"											
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.																
0	3,565.42	0	3,759.77	0	3,950.07	0	4,133.26	0	4,308.57	0		0		0		0		0																	
1/4	3,569.47	1/4	3,763.80	1/4	3,953.95	1/4	4,136.99	1/4	4,312.10	1/4		1/4		1/4		1/4		1/4		1/4															
1/2	3,573.52	1/2	3,767.83	1/2	3,957.84	1/2	4,140.73	1/2	4,315.64	1/2		1/2		1/2		1/2		1/2		1/2															
3/4	3,577.57	3/4	3,771.87	3/4	3,961.72	3/4	4,144.47	3/4	4,319.17	3/4		3/4		3/4		3/4		3/4		3/4															
1	3,581.62	1	3,775.90	1	3,965.61	1	4,148.20	1	4,322.71	1		1		1		1		1		1															
1 1/4	3,585.67	1 1/4	3,779.92	1 1/4	3,969.48	1 1/4	4,151.91	1 1/4	4,326.23	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4															
1 1/2	3,589.72	1 1/2	3,783.94	1 1/2	3,973.35	1 1/2	4,155.62	1 1/2	4,329.75	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2															
3/4	3,593.76	3/4	3,787.96	3/4	3,977.22	3/4	4,159.33	3/4	4,333.27	3/4		3/4		3/4		3/4		3/4		3/4															
2	3,597.81	2	3,791.98	2	3,981.09	2	4,163.05	2	4,336.80	2		2		2		2		2		2															
1 3/4	3,601.86	1 3/4	3,795.99	1 3/4	3,984.95	1 3/4	4,166.74	1 3/4	4,340.31	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4		1 3/4															
1 1/2	3,605.91	1 1/2	3,800.00	1 1/2	3,988.81	1 1/2	4,170.44	1 1/2	4,343.82	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2															
3/4	3,609.96	3/4	3,804.00	3/4	3,992.67	3/4	4,174.14	3/4	4,347.33	3/4		3/4		3/4		3/4		3/4		3/4															
3	3,614.01	3	3,808.01	3	3,996.53	3	4,177.83	3	4,350.84	3		3		3		3		3		3															
1 1/4	3,618.06	1 1/4	3,812.01	1 1/4	4,000.38	1 1/4	4,181.52	1 1/4	4,354.33	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4															
1 1/2	3,622.11	1 1/2	3,816.00	1 1/2	4,004.23	1 1/2	4,185.20	1 1/2	4,357.83	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2															
3/4	3,626.16	3/4	3,820.00	3/4	4,008.07	3/4	4,188.89	3/4	4,361.33	3/4		3/4		3/4		3/4		3/4		3/4															
4	3,630.21	4	3,823.98	4	4,011.92	4	4,192.57	4	4,364.83	4		4		4		4		4		4															
1 3/4	3,634.26	1 3/4	3,827.98	1 3/4	4,015.76	1 3/4	4,196.24	1 3/4	4,368.31	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4		1 3/4															
1 1/2	3,638.31	1 1/2	3,831.96	1 1/2	4,019.59	1 1/2	4,199.92	1 1/2	4,371.80	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2															
3/4	3,642.36	3/4	3,835.94	3/4	4,023.43	3/4	4,203.59	3/4	4,375.28	3/4		3/4		3/4		3/4		3/4		3/4															
5	3,646.41	5	3,839.92	5	4,027.26	5	4,207.26	5	4,378.77	5		5		5		5		5		5															
1 1/4	3,650.46	1 1/4	3,843.90	1 1/4	4,031.08	1 1/4	4,210.92	1 1/4	4,382.57	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4															
1 1/2	3,654.51	1 1/2	3,847.87	1 1/2	4,034.91	1 1/2	4,214.58	1 1/2	4,386.36	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2															
3/4	3,658.56	3/4	3,851.84	3/4	4,038.73	3/4	4,218.24	3/4	4,390.16	3/4		3/4		3/4		3/4		3/4		3/4															
6	3,662.60	6	3,855.81	6	4,042.55	6	4,221.90	6	4,393.96	6		6		6		6		6		6															
1 1/4	3,666.65	1 1/4	3,859.77	1 1/4	4,046.36	1 1/4	4,225.55	1 1/4	4,396.84	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4															
1 1/2	3,670.70	1 1/2	3,863.72	1 1/2	4,050.17	1 1/2	4,229.20	1 1/2	4,399.72	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2															
3/4	3,674.75	3/4	3,867.68	3/4	4,053.98	3/4	4,232.84	3/4	4,402.60	3/4		3/4		3/4		3/4		3/4		3/4															
7	3,678.80	7	3,871.64	7	4,057.79	7	4,236.49	7	4,405.48	7		7		7		7		7		7															
1 3/4	3,682.85	1 3/4	3,875.59	1 3/4	4,061.59	1 3/4	4,240.13	1 3/4	4,407.14	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4		1 3/4															
1 1/2	3,686.90	1 1/2	3,879.53	1 1/2	4,065.39	1 1/2	4,243.76	1 1/2	4,408.79	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2															
3/4	3,690.95	3/4	3,883.48	3/4	4,069.19	3/4	4,247.40	3/4	4,410.45	3/4		3/4		3/4		3/4		3/4		3/4															
8	3,695.00	8	3,887.43	8	4,072.98	8	4,251.03	8	4,412.11	8		8		8		8		8		8															
1 1/4	3,699.05	1 1/4	3,891.36	1 1/4	4,076.77	1 1/4	4,254.65	1 1/4	4,415.66	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4															
1 1/2	3,703.10	1 1/2	3,895.29	1 1/2	4,080.56	1 1/2	4,258.28	1 1/2	4,418.90	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2															
3/4	3,707.15	3/4	3,899.23	3/4	4,084.34	3/4	4,261.90	3/4	4,421.11	3/4		3/4		3/4		3/4		3/4		3/4															
9	3,711.20	9	3,903.16	9	4,088.13	9	4,265.52	9	4,424.66	9		9		9		9		9		9															
1 1/4	3,715.25	1 1/4	3,907.08	1 1/4	4,091.90	1 1/4	4,269.13	1 1/4	4,427.17	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4															
1 1/2	3,719.30	1 1/2	3,911.00	1 1/2	4,095.67	1 1/2	4,272.74	1 1/2	4,429.68	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2															
3/4	3,723.35	3/4	3,914.92	3/4	4,099.45	3/4	4,276.35	3/4	4,432.19	3/4		3/4		3/4		3/4		3/4		3/4															
10	3,727.40	10	3,918.85	10	4,103.22	10	4,279.96	10	4,434.70	10		10		10		10		10		10															
1 3/4	3,731.44	1 3/4	3,922.75	1 3/4	4,106.98	1 3/4	4,283.56	1 3/4	4,437.21	1 3/4		1 3/4		1 3/4		1 3/4		1 3/4		1 3/4															
1 1/2	3,735.49	1 1/2	3,926.66	1 1/2	4,110.74	1 1/2	4,287.16	1 1/2	4,439.72	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2															
3/4	3,739.54	3/4	3,930.57	3/4	4,114.50	3/4	4,290.76	3/4	4,442.23	3/4		3/4		3/4		3/4		3/4		3/4															
11	3,743.59	11	3,934.48	11	4,118.26	11	4,294.36	11	4,444.74	11		11		11		11		11		11															
1 1/4	3,747.64	1 1/4	3,938.38	1 1/4	4,122.01	1 1/4	4,297.91	1 1/4	4,447.25	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4		1 1/4															
1 1/2	3,751.68	1 1/2	3,942.27	1 1/2	4,125.76	1 1/2	4,301.46	1 1/2	4,449.76	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2		1 1/2															
3/4	3,755.72	3/4	3,946.17	3/4	4,129.51	3/4	4,305.01	3/4	4,452.27	3/4		3/4		3/4		3/4		3/4		3/4															

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.



BARGE "EMS 523"

3 STBD

INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL #C-1247

GAUGE HEIGHT 15'-08 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	21.28	0	356.71	0	716.84	0	1,065.39	0	1,418.92	0	1,778.42	0	2,138.43	0	2,498.37	0	2,858.13	0	3,216.82
1/4	25.51	1/4	364.21	1/4	724.34	1/4	1,072.56	1/4	1,426.36	1/4	1,785.93	1/4	2,145.93	1/4	2,505.87	1/4	2,865.62	1/4	3,224.27
1/2	29.73	1/2	371.71	1/2	731.84	1/2	1,079.72	1/2	1,433.80	1/2	1,793.43	1/2	2,153.43	1/2	2,513.37	1/2	2,873.10	1/2	3,231.72
3/4	33.96	3/4	379.22	3/4	739.34	3/4	1,086.88	3/4	1,441.24	3/4	1,800.93	3/4	2,160.93	3/4	2,520.87	3/4	2,880.59	3/4	3,239.17
1	38.18	1	386.72	1	746.85	1	1,094.05	1	1,448.68	1	1,808.43	1	2,168.43	1	2,528.37	1	2,888.07	1	3,246.62
1 1/4	43.65	1 1/4	394.22	1 1/4	754.35	1 1/4	1,108.21	1 1/4	1,456.12	1 1/4	1,815.93	1 1/4	2,175.92	1 1/4	2,535.87	1 1/4	2,895.55	1 1/4	3,254.07
1 1/2	49.12	1 1/2	401.72	1 1/2	761.85	1 1/2	1,101.38	1 1/2	1,463.55	1 1/2	1,823.43	1 1/2	2,183.42	1 1/2	2,543.37	1 1/2	2,903.03	1 1/2	3,261.52
3/4	54.59	3/4	409.23	3/4	769.36	3/4	1,115.54	3/4	1,470.99	3/4	1,830.93	3/4	2,190.92	3/4	2,550.86	3/4	2,910.50	3/4	3,268.97
2	60.06	2	416.73	2	776.86	2	1,122.71	2	1,478.43	2	1,838.43	2	2,198.42	2	2,558.36	2	2,917.98	2	3,276.42
1 1/4	66.77	1 1/4	424.23	1 1/4	784.36	1 1/4	1,129.87	1 1/4	1,485.93	1 1/4	1,845.93	1 1/4	2,205.92	1 1/4	2,565.86	1 1/4	2,925.46	1 1/4	3,283.87
1 1/2	73.48	1 1/2	431.73	1 1/2	791.86	1 1/2	1,137.04	1 1/2	1,493.43	1 1/2	1,853.43	1 1/2	2,213.42	1 1/2	2,573.36	1 1/2	2,932.94	1 1/2	3,291.32
3/4	80.19	3/4	439.24	3/4	799.37	3/4	1,144.20	3/4	1,500.91	3/4	1,860.93	3/4	2,220.92	3/4	2,580.86	3/4	2,940.41	3/4	3,298.78
3	86.90	3	446.74	3	806.87	3	1,151.36	3	1,508.40	3	1,868.43	3	2,228.42	3	2,588.36	3	2,947.89	3	3,306.23
1 1/4	94.33	1 1/4	454.24	1 1/4	814.12	1 1/4	1,158.78	1 1/4	1,515.90	1 1/4	1,875.93	1 1/4	2,235.91	1 1/4	2,595.86	1 1/4	2,955.37	1 1/4	3,313.69
1 1/2	101.75	1 1/2	461.74	1 1/2	821.38	1 1/2	1,166.19	1 1/2	1,523.40	1 1/2	1,883.43	1 1/2	2,243.41	1 1/2	2,603.36	1 1/2	2,962.84	1 1/2	3,321.15
3/4	109.17	3/4	469.25	3/4	828.63	3/4	1,173.61	3/4	1,530.90	3/4	1,890.93	3/4	2,250.91	3/4	2,610.85	3/4	2,970.32	3/4	3,328.62
4	116.60	4	476.75	4	835.89	4	1,181.02	4	1,538.41	4	1,898.43	4	2,258.41	4	2,618.35	4	2,977.80	4	3,336.08
1 1/4	124.10	1 1/4	484.25	1 1/4	843.08	1 1/4	1,188.44	1 1/4	1,545.91	1 1/4	1,905.93	1 1/4	2,265.91	1 1/4	2,625.85	1 1/4	2,985.28	1 1/4	3,343.55
1 1/2	131.61	1 1/2	491.76	1 1/2	850.27	1 1/2	1,195.87	1 1/2	1,553.41	1 1/2	1,913.44	1 1/2	2,273.41	1 1/2	2,633.35	1 1/2	2,992.75	1 1/2	3,351.01
3/4	139.12	3/4	499.26	3/4	857.47	3/4	1,203.29	3/4	1,560.91	3/4	1,920.94	3/4	2,280.91	3/4	2,640.84	3/4	2,999.23	3/4	3,358.48
5	146.63	5	506.76	5	864.66	5	1,210.71	5	1,568.41	5	1,928.44	5	2,288.41	5	2,648.34	5	3,007.71	5	3,365.95
1 1/4	154.13	1 1/4	514.26	1 1/4	871.85	1 1/4	1,218.13	1 1/4	1,575.91	1 1/4	1,935.94	1 1/4	2,295.90	1 1/4	2,655.84	1 1/4	3,015.18	1 1/4	3,373.41
1 1/2	161.64	1 1/2	521.77	1 1/2	879.04	1 1/2	1,225.56	1 1/2	1,583.41	1 1/2	1,943.44	1 1/2	2,303.40	1 1/2	2,663.34	1 1/2	3,022.66	1 1/2	3,380.88
3/4	169.14	3/4	529.27	3/4	886.23	3/4	1,232.98	3/4	1,590.91	3/4	1,950.94	3/4	2,310.90	3/4	2,670.83	3/4	3,030.14	3/4	3,388.34
6	176.64	6	536.77	6	893.42	6	1,240.40	6	1,598.41	6	1,958.44	6	2,318.40	6	2,678.33	6	3,037.62	6	3,395.81
1 1/4	184.15	1 1/4	544.27	1 1/4	900.59	1 1/4	1,247.84	1 1/4	1,605.91	1 1/4	1,965.94	1 1/4	2,325.90	1 1/4	2,685.83	1 1/4	3,045.09	1 1/4	3,403.28
1 1/2	191.65	1 1/2	551.78	1 1/2	907.76	1 1/2	1,255.27	1 1/2	1,613.41	1 1/2	1,973.44	1 1/2	2,333.40	1 1/2	2,693.33	1 1/2	3,052.57	1 1/2	3,410.74
3/4	199.15	3/4	558.28	3/4	914.93	3/4	1,262.71	3/4	1,620.91	3/4	1,980.94	3/4	2,340.90	3/4	2,700.82	3/4	3,060.05	3/4	3,418.21
7	206.65	7	566.78	7	922.10	7	1,270.15	7	1,628.41	7	1,988.44	7	2,348.40	7	2,708.32	7	3,067.52	7	3,425.67
1 1/4	214.16	1 1/4	574.29	1 1/4	929.27	1 1/4	1,277.58	1 1/4	1,635.91	1 1/4	1,995.94	1 1/4	2,355.90	1 1/4	2,715.82	1 1/4	3,075.01	1 1/4	3,433.14
1 1/2	221.66	1 1/2	581.79	1 1/2	936.43	1 1/2	1,285.02	1 1/2	1,643.41	1 1/2	2,003.44	1 1/2	2,363.39	1 1/2	2,723.32	1 1/2	3,082.49	1 1/2	3,440.61
3/4	229.16	3/4	589.29	3/4	943.60	3/4	1,292.46	3/4	1,650.91	3/4	2,010.94	3/4	2,370.89	3/4	2,730.81	3/4	3,089.96	3/4	3,448.07
8	236.66	8	596.79	8	950.76	8	1,299.90	8	1,658.42	8	2,018.44	8	2,378.39	8	2,738.31	8	3,097.46	8	3,455.54
1 1/4	244.17	1 1/4	604.30	1 1/4	957.93	1 1/4	1,307.34	1 1/4	1,665.92	1 1/4	2,025.94	1 1/4	2,385.89	1 1/4	2,745.81	1 1/4	3,104.94	1 1/4	3,463.00
1 1/2	251.67	1 1/2	611.80	1 1/2	965.09	1 1/2	1,314.78	1 1/2	1,673.42	1 1/2	2,033.44	1 1/2	2,393.39	1 1/2	2,753.31	1 1/2	3,112.43	1 1/2	3,470.47
3/4	259.17	3/4	619.30	3/4	972.25	3/4	1,322.22	3/4	1,680.92	3/4	2,040.94	3/4	2,400.89	3/4	2,760.81	3/4	3,119.91	3/4	3,477.94
9	266.67	9	626.80	9	979.42	9	1,329.66	9	1,688.42	9	2,048.44	9	2,408.39	9	2,768.31	9	3,127.40	9	3,485.40
1 1/4	274.18	1 1/4	634.31	1 1/4	986.58	1 1/4	1,337.10	1 1/4	1,695.92	1 1/4	2,055.94	1 1/4	2,415.89	1 1/4	2,775.79	1 1/4	3,134.85	1 1/4	3,492.86
1 1/2	281.68	1 1/2	641.81	1 1/2	993.75	1 1/2	1,344.53	1 1/2	1,703.42	1 1/2	2,063.44	1 1/2	2,423.38	1 1/2	2,783.28	1 1/2	3,142.31	1 1/2	3,499.32
3/4	289.18	3/4	649.31	3/4	1,000.91	3/4	1,351.97	3/4	1,710.92	3/4	2,070.94	3/4	2,430.88	3/4	2,790.77	3/4	3,149.76	3/4	3,506.77
10	296.69	10	656.82	10	1,008.08	10	1,359.41	10	1,718.42	10	2,078.44	10	2,438.38	10	2,798.25	10	3,157.22	10	3,514.23
1 1/4	304.19	1 1/4	664.32	1 1/4	1,015.24	1 1/4	1,366.85	1 1/4	1,725.92	1 1/4	2,085.94	1 1/4	2,445.88	1 1/4	2,805.74	1 1/4	3,164.67	1 1/4	3,521.69
1 1/2	311.69	1 1/2	671.82	1 1/2	1,022.40	1 1/2	1,374.29	1 1/2	1,733.42	1 1/2	2,093.44	1 1/2	2,453.38	1 1/2	2,813.22	1 1/2	3,172.12	1 1/2	3,529.15
3/4	319.19	3/4	679.32	3/4	1,029.57	3/4	1,381.73	3/4	1,740.92	3/4	2,100.94	3/4	2,460.88	3/4	2,820.71	3/4	3,179.57	3/4	3,536.61
11	326.70	11	686.83	11	1,036.73	11	1,389.17	11	1,748.42	11	2,108.43	11	2,468.38	11	2,828.19	11	3,187.02	11	3,543.12
1 1/4	334.20	1 1/4	694.33	1 1/4	1,043.90	1 1/4	1,396.61	1 1/4	1,755.92	1 1/4	2,115.93	1 1/4	2,475.88	1 1/4	2,835.68	1 1/4	3,194.47	1 1/4	3,550.63
1 1/2	341.70	1 1/2	701.83	1 1/2	1,051.06	1 1/2	1,404.04	1 1/2	1,763.42	1 1/2	2,123.43	1 1/2	2,483.37	1 1/2	2,843.16	1 1/2	3,201.92	1 1/2	3,557.14
3/4	349.20	3/4	709.33	3/4	1,058.23	3/4	1,411.48	3/4	1,770.92	3/4	2,130.93	3/4	2,490.87	3/4	2,850.65	3/4	3,209.37	3/4	3,564.65

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPM'S CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP UP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>

Ch. Pearson



BARGE "EMS 523"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1247

GAUGE HEIGHT 15'-08-1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	4,927.67	0	4,595.32	0	4,248.84	0	3,889.41	0	3,525.91	0	3,162.41	0	2,798.91	0	2,435.34
1/4	1/4	1/4	1/4	1/4	4,920.90	1/4	4,588.24	1/4	4,241.48	1/4	3,881.84	1/4	3,518.34	1/4	3,154.84	1/4	2,791.34	1/4	2,427.77
1/2	1/2	1/2	1/2	1/2	4,914.12	1/2	4,581.12	1/2	4,234.12	1/2	3,874.26	1/2	3,510.76	1/2	3,147.26	1/2	2,783.77	1/2	2,420.19
3/4	3/4	3/4	3/4	3/4	4,907.32	3/4	4,574.06	3/4	4,226.74	3/4	3,866.69	3/4	3,503.19	3/4	3,139.69	3/4	2,776.19	3/4	2,412.62
1	1	1	1	1	4,900.53	1	4,566.96	1	4,219.36	1	3,859.12	1	3,495.62	1	3,132.12	1	2,768.62	1	2,405.04
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	4,893.73	1 1/4	4,559.85	1 1/4	4,211.98	1 1/4	3,851.54	1 1/4	3,488.04	1 1/4	3,124.55	1 1/4	2,761.05	1 1/4	2,397.47
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,886.93	1 1/2	4,552.75	1 1/2	4,204.60	1 1/2	3,843.97	1 1/2	3,480.47	1 1/2	3,116.97	1 1/2	2,753.47	1 1/2	2,389.89
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	4,880.11	3 1/4	4,545.62	3 1/4	4,197.20	3 1/4	3,836.40	3 1/4	3,472.90	3 1/4	3,109.40	3 1/4	2,745.90	3 1/4	2,382.31
2	2	2	2	2	4,873.29	2	4,538.50	2	4,189.80	2	3,828.83	2	3,465.33	2	3,101.83	2	2,738.33	2	2,374.74
1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	4,866.47	1 3/4	4,531.37	1 3/4	4,182.39	1 3/4	3,821.25	1 3/4	3,457.75	1 3/4	3,094.25	1 3/4	2,730.75	1 3/4	2,367.16
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,859.65	1 1/2	4,524.24	1 1/2	4,174.99	1 1/2	3,813.68	1 1/2	3,450.18	1 1/2	3,086.68	1 1/2	2,723.18	1 1/2	2,359.59
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	4,852.81	3 1/4	4,517.09	3 1/4	4,167.57	3 1/4	3,806.11	3 1/4	3,442.61	3 1/4	3,079.11	3 1/4	2,715.61	3 1/4	2,352.01
3	3	3	3	3	4,845.96	3	4,509.95	3	4,160.14	3	3,798.53	3	3,435.03	3	3,071.54	3	2,708.04	3	2,344.44
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	4,839.12	1 1/4	4,502.80	1 1/4	4,152.71	1 1/4	3,790.96	1 1/4	3,427.46	1 1/4	3,063.96	1 1/4	2,700.46	1 1/4	2,336.86
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,832.28	1 1/2	4,495.65	1 1/2	4,145.29	1 1/2	3,783.39	1 1/2	3,419.89	1 1/2	3,056.39	1 1/2	2,692.89	1 1/2	2,329.28
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	4,825.41	3 1/4	4,488.47	3 1/4	4,137.84	3 1/4	3,775.82	3 1/4	3,412.32	3 1/4	3,048.82	3 1/4	2,685.32	3 1/4	2,321.71
4	4	4	4	4	4,818.54	4	4,481.30	4	4,130.39	4	3,768.24	4	3,404.74	4	3,041.24	4	2,677.74	4	2,314.13
1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	4,811.68	1 3/4	4,474.13	1 3/4	4,122.94	1 3/4	3,760.67	1 3/4	3,397.17	1 3/4	3,033.67	1 3/4	2,670.17	1 3/4	2,306.56
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,804.81	1 1/2	4,466.96	1 1/2	4,115.49	1 1/2	3,753.10	1 1/2	3,389.60	1 1/2	3,026.10	1 1/2	2,662.60	1 1/2	2,298.98
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	4,797.92	3 1/4	4,459.76	3 1/4	4,108.02	3 1/4	3,745.52	3 1/4	3,382.02	3 1/4	3,018.52	3 1/4	2,655.03	3 1/4	2,291.41
5	5	5	5	5	4,791.03	5	4,452.57	5	4,100.55	5	3,737.95	5	3,374.45	5	3,010.95	5	2,647.46	5	2,283.83
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	4,784.14	1 1/4	4,445.37	1 1/4	4,093.08	1 1/4	3,730.38	1 1/4	3,366.88	1 1/4	3,003.38	1 1/4	2,639.88	1 1/4	2,276.25
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,777.25	1 1/2	4,438.18	1 1/2	4,085.60	1 1/2	3,722.80	1 1/2	3,359.31	1 1/2	2,995.81	1 1/2	2,632.31	1 1/2	2,268.68
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	4,770.34	3 1/4	4,430.96	3 1/4	4,078.11	3 1/4	3,715.23	3 1/4	3,351.73	3 1/4	2,988.23	3 1/4	2,624.74	3 1/4	2,261.10
6	6	6	6	6	4,763.43	6	4,423.74	6	4,070.61	6	3,707.66	6	3,344.16	6	2,980.66	6	2,617.16	6	2,253.53
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	4,756.51	1 1/4	4,416.52	1 1/4	4,063.12	1 1/4	3,700.09	1 1/4	3,336.59	1 1/4	2,973.09	1 1/4	2,609.58	1 1/4	2,245.95
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,749.60	1 1/2	4,409.30	1 1/2	4,055.62	1 1/2	3,692.51	1 1/2	3,328.01	1 1/2	2,965.51	1 1/2	2,602.01	1 1/2	2,238.38
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	4,742.66	3 1/4	4,402.06	3 1/4	4,048.10	3 1/4	3,684.94	3 1/4	3,321.44	3 1/4	2,957.94	3 1/4	2,594.44	3 1/4	2,230.80
7	7	7	7	7	4,735.72	7	4,394.82	7	4,040.59	7	3,677.37	7	3,313.87	7	2,950.37	7	2,586.86	7	2,223.22
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	4,728.78	1 1/4	4,387.58	1 1/4	4,033.07	1 1/4	3,669.79	1 1/4	3,306.30	1 1/4	2,942.80	1 1/4	2,579.28	1 1/4	2,215.65
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,721.84	1 1/2	4,380.34	1 1/2	4,025.55	1 1/2	3,662.22	1 1/2	3,298.72	1 1/2	2,935.22	1 1/2	2,571.71	1 1/2	2,208.07
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	4,714.86	3 1/4	4,373.07	3 1/4	4,018.01	3 1/4	3,654.65	3 1/4	3,291.15	3 1/4	2,927.65	3 1/4	2,564.13	3 1/4	2,200.50
8	8	8	8	8	4,707.87	8	4,365.81	8	4,010.47	8	3,647.08	8	3,283.58	8	2,920.08	8	2,556.58	8	2,192.92
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	4,700.88	1 1/4	4,358.54	1 1/4	4,002.93	1 1/4	3,639.50	1 1/4	3,276.00	1 1/4	2,912.50	1 1/4	2,548.98	1 1/4	2,185.35
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,693.89	1 1/2	4,351.28	1 1/2	3,995.39	1 1/2	3,631.93	1 1/2	3,268.43	1 1/2	2,904.93	1 1/2	2,541.43	1 1/2	2,177.77
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	4,686.88	3 1/4	4,343.99	3 1/4	3,987.82	3 1/4	3,624.36	3 1/4	3,260.86	3 1/4	2,897.36	3 1/4	2,533.83	3 1/4	2,170.19
9	9	9	9	9	4,679.87	9	4,336.70	9	3,980.26	9	3,616.78	9	3,253.28	9	2,889.79	9	2,526.25	9	2,162.62
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	4,672.86	1 1/4	4,329.41	1 1/4	3,972.70	1 1/4	3,609.21	1 1/4	3,245.71	1 1/4	2,882.21	1 1/4	2,518.68	1 1/4	2,155.04
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,665.85	1 1/2	4,322.13	1 1/2	3,965.14	1 1/2	3,601.64	1 1/2	3,238.14	1 1/2	2,874.64	1 1/2	2,511.10	1 1/2	2,147.47
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	4,658.81	3 1/4	4,314.82	3 1/4	3,957.56	3 1/4	3,594.07	3 1/4	3,230.57	3 1/4	2,867.07	3 1/4	2,503.52	3 1/4	2,133.89
10	10	10	10	10	4,651.78	10	4,307.51	10	3,949.99	10	3,586.49	10	3,222.99	10	2,859.49	10	2,495.95	10	2,132.32
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	4,644.75	1 1/4	4,300.19	1 1/4	3,942.42	1 1/4	3,578.92	1 1/4	3,215.42	1 1/4	2,851.92	1 1/4	2,488.37	1 1/4	2,124.74
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,637.71	1 1/2	4,292.88	1 1/2	3,935.85	1 1/2	3,571.35	1 1/2	3,207.85	1 1/2	2,844.35	1 1/2	2,480.80	1 1/2	2,117.16
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	4,630.65	3 1/4	4,285.55	3 1/4	3,927.27	3 1/4	3,563.77	3 1/4	3,200.27	3 1/4	2,836.78	3 1/4	2,473.22	3 1/4	2,109.59
11	11	11	11	11	4,623.60	11	4,278.22	11	3,919.70	11	3,556.20	11	3,192.70	11	2,829.20	11	2,465.65	11	2,102.91
1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	4,616.54	1 1/4	4,270.88	1 1/4	3,912.13	1 1/4	3,548.63	1 1/4	3,185.13	1 1/4	2,821.63	1 1/4	2,458.07	1 1/4	2,094.44
1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	4,609.48	1 1/2	4,263.55	1 1/2	3,904.55	1 1/2	3,541.06	1 1/2	3,177.56	1 1/2	2,814.06	1 1/2	2,450.50	1 1/2	2,086.86
3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	4,602.40	3 1/4	4,256.19	3 1/4	3,896.98	3 1/4	3,533.48	3 1/4	3,169.98	3 1/4	2,806.48	3 1/4	2,442.92	3 1/4	2,079.29

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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PRECISION MEASUREMENT
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BARGE "EMS 523"

1 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1247

GAUGE HEIGHT 15'-08-1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,071.71	0	1,708.08	0	1,344.44	0	981.24	0	617.69	0	254.07	0		0		0			
1/4	2,064.13	1/4	1,700.50	1/4	1,336.87	1/4	973.67	1/4	610.11	1/4	246.49	1/4		1/4		1/4		1/4	
1/2	2,056.56	1/2	1,692.93	1/2	1,329.29	1/2	966.11	1/2	602.54	1/2	238.92	1/2		1/2		1/2		1/2	
3/4	2,048.98	3/4	1,685.35	3/4	1,321.72	3/4	958.55	3/4	594.96	3/4	231.34	3/4		3/4		3/4		3/4	
1	2,041.41	1	1,677.77	1	1,314.14	1	950.98	1	587.39	1	223.77	1		1		1		1	
1/4	2,033.83	1/4	1,670.20	1/4	1,306.56	1/4	943.42	1/4	579.81	1/4	216.19	1/4		1/4		1/4		1/4	
1/2	2,026.26	1/2	1,662.62	1/2	1,298.99	1/2	935.85	1/2	572.23	1/2	208.62	1/2		1/2		1/2		1/2	
3/4	2,018.68	3/4	1,655.05	3/4	1,291.41	3/4	928.28	3/4	564.66	3/4	201.04	3/4		3/4		3/4		3/4	
2	2,011.10	2	1,647.47	2	1,283.84	2	920.70	2	557.08	2	193.46	2		2		2		2	
1/4	2,003.53	1/4	1,639.90	1/4	1,276.26	1/4	913.13	1/4	549.51	1/4	185.89	1/4		1/4		1/4		1/4	
1/2	1,995.95	1/2	1,632.32	1/2	1,268.69	1/2	905.55	1/2	541.93	1/2	178.31	1/2		1/2		1/2		1/2	
3/4	1,988.38	3/4	1,624.74	3/4	1,261.11	3/4	897.98	3/4	534.36	3/4	170.74	3/4		3/4		3/4		3/4	
3	1,980.80	3	1,617.17	3	1,253.54	3	890.40	3	526.78	3	163.16	3		3		3		3	
1/4	1,973.23	1/4	1,609.59	1/4	1,245.96	1/4	882.83	1/4	519.21	1/4	155.59	1/4		1/4		1/4		1/4	
1/2	1,965.65	1/2	1,602.02	1/2	1,238.39	1/2	875.25	1/2	511.63	1/2	148.01	1/2		1/2		1/2		1/2	
3/4	1,958.07	3/4	1,594.44	3/4	1,230.82	3/4	867.67	3/4	504.06	3/4	140.44	3/4		3/4		3/4		3/4	
4	1,950.50	4	1,586.87	4	1,223.26	4	860.10	4	496.48	4	132.86	4		4		4		4	
1/4	1,942.92	1/4	1,579.29	1/4	1,215.70	1/4	852.52	1/4	488.90	1/4	125.29	1/4		1/4		1/4		1/4	
1/2	1,935.35	1/2	1,571.71	1/2	1,208.13	1/2	844.95	1/2	481.33	1/2	117.71	1/2		1/2		1/2		1/2	
3/4	1,927.77	3/4	1,564.14	3/4	1,200.57	3/4	837.37	3/4	473.75	3/4	110.21	3/4		3/4		3/4		3/4	
5	1,920.20	5	1,556.56	5	1,193.01	5	829.80	5	466.18	5	102.72	5		5		5		5	
1/4	1,912.62	1/4	1,548.99	1/4	1,185.44	1/4	822.22	1/4	458.60	1/4	95.22	1/4		1/4		1/4		1/4	
1/2	1,905.04	1/2	1,541.41	1/2	1,177.88	1/2	814.65	1/2	451.03	1/2	87.72	1/2		1/2		1/2		1/2	
3/4	1,897.47	3/4	1,533.84	3/4	1,170.32	3/4	807.07	3/4	443.45	3/4	80.94	3/4		3/4		3/4		3/4	
6	1,889.89	6	1,526.26	6	1,162.75	6	799.50	6	435.88	6	74.15	6		6		6		6	
1/4	1,882.32	1/4	1,518.68	1/4	1,155.19	1/4	791.92	1/4	428.30	1/4	67.37	1/4		1/4		1/4		1/4	
1/2	1,874.74	1/2	1,511.11	1/2	1,147.63	1/2	784.35	1/2	420.73	1/2	60.58	1/2		1/2		1/2		1/2	
3/4	1,867.17	3/4	1,503.53	3/4	1,140.06	3/4	776.77	3/4	413.15	3/4	55.06	3/4		3/4		3/4		3/4	
7	1,859.59	7	1,495.96	7	1,132.50	7	769.19	7	405.58	7	49.53	7		7		7		7	
1/4	1,852.01	1/4	1,488.38	1/4	1,124.94	1/4	761.62	1/4	398.00	1/4	44.01	1/4		1/4		1/4		1/4	
1/2	1,844.44	1/2	1,480.81	1/2	1,117.38	1/2	754.04	1/2	390.42	1/2	38.49	1/2		1/2		1/2		1/2	
3/4	1,836.86	3/4	1,473.23	3/4	1,109.81	3/4	746.47	3/4	382.85	3/4	34.23	3/4		3/4		3/4		3/4	
8	1,829.29	8	1,465.65	8	1,102.25	8	738.89	8	375.27	8	29.97	8		8		8		8	
1/4	1,821.71	1/4	1,458.08	1/4	1,094.69	1/4	731.32	1/4	367.70	1/4	25.71	1/4		1/4		1/4		1/4	
1/2	1,814.14	1/2	1,450.50	1/2	1,087.12	1/2	723.74	1/2	360.12	1/2	21.45	1/2		1/2		1/2		1/2	
3/4	1,806.56	3/4	1,442.93	3/4	1,079.56	3/4	716.17	3/4	352.55	3/4		3/4		3/4		3/4		3/4	
9	1,798.98	9	1,435.35	9	1,072.00	9	708.59	9	344.97	9		9		9		9		9	
1/4	1,791.41	1/4	1,427.78	1/4	1,064.43	1/4	701.02	1/4	337.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,783.83	1/2	1,420.20	1/2	1,056.87	1/2	693.44	1/2	329.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,776.26	3/4	1,412.62	3/4	1,049.31	3/4	685.87	3/4	322.25	3/4		3/4		3/4		3/4		3/4	
10	1,768.68	10	1,405.05	10	1,041.74	10	678.29	10	314.67	10		10		10		10		10	
1/4	1,761.11	1/4	1,397.47	1/4	1,034.18	1/4	670.71	1/4	307.10	1/4		1/4		1/4		1/4		1/4	
1/2	1,753.53	1/2	1,389.90	1/2	1,026.62	1/2	663.14	1/2	299.52	1/2		1/2		1/2		1/2		1/2	
3/4	1,745.95	3/4	1,382.32	3/4	1,019.05	3/4	655.56	3/4	291.94	3/4		3/4		3/4		3/4		3/4	
11	1,738.38	11	1,374.75	11	1,011.49	11	647.99	11	284.37	11		11		11		11		11	
1/4	1,730.80	1/4	1,367.17	1/4	1,003.93	1/4	640.41	1/4	276.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,723.23	1/2	1,359.59	1/2	996.36	1/2	632.84	1/2	269.22	1/2		1/2		1/2		1/2		1/2	
3/4	1,715.65	3/4	1,352.02	3/4	988.80	3/4	625.26	3/4	261.64	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/27/2020 CL
CALCULATED: 04/28/2020 CL
PRINTED: 04/28/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Portland, Texas 77588

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BARGE "EMS 523"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1247

GAUGE HEIGHT 15'-07 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	5,220.89	0	4,905.47	0	4,572.18	0	4,224.85	0	3,864.79	0	3,501.29	0	3,137.79	0	2,774.29	0	2,410.70
1/4	1/4	1/4	4,898.67	1/4	4,588.67	1/4	4,274.47	1/4	3,958.72	1/4	3,643.72	1/4	3,328.72	1/4	3,013.72	1/4	2,698.72	1/4	2,383.72
1/2	1/2	1/2	4,588.67	1/2	4,278.67	1/2	3,968.67	1/2	3,653.67	1/2	3,338.67	1/2	3,023.67	1/2	2,708.67	1/2	2,393.67	1/2	2,078.67
3/4	3/4	3/4	4,278.67	3/4	3,968.67	3/4	3,658.67	3/4	3,348.67	3/4	3,033.67	3/4	2,718.67	3/4	2,403.67	3/4	2,088.67	3/4	1,773.67
1	1	1	5,199.15	1	4,878.25	1	4,557.35	1	4,236.45	1	3,915.55	1	3,594.65	1	3,273.75	1	2,952.85	1	2,631.95
1/4	1/4	1/4	5,192.80	1/4	4,871.43	1/4	4,550.53	1/4	4,229.63	1/4	3,908.73	1/4	3,587.83	1/4	3,266.93	1/4	2,946.03	1/4	2,625.13
1/2	1/2	1/2	5,186.45	1/2	4,865.07	1/2	4,544.17	1/2	4,223.27	1/2	3,902.37	1/2	3,581.47	1/2	3,260.57	1/2	2,939.67	1/2	2,618.77
3/4	3/4	3/4	5,180.10	3/4	4,858.72	3/4	4,537.82	3/4	4,216.92	3/4	3,896.02	3/4	3,575.12	3/4	3,254.22	3/4	2,933.32	3/4	2,612.42
2	2	2	5,172.89	2	4,850.95	2	4,529.05	2	4,208.15	2	3,887.25	2	3,566.35	2	3,245.45	2	2,924.55	2	2,603.65
1/4	1/4	1/4	5,165.67	1/4	4,844.10	1/4	4,523.20	1/4	4,202.30	1/4	3,881.40	1/4	3,560.50	1/4	3,239.60	1/4	2,918.70	1/4	2,597.80
1/2	1/2	1/2	5,158.46	1/2	4,837.26	1/2	4,516.36	1/2	4,195.46	1/2	3,874.56	1/2	3,553.66	1/2	3,232.76	1/2	2,911.86	1/2	2,590.96
3/4	3/4	3/4	5,151.24	3/4	4,830.41	3/4	4,509.51	3/4	4,188.61	3/4	3,867.71	3/4	3,546.81	3/4	3,225.91	3/4	2,905.01	3/4	2,584.11
3	3	3	5,144.72	3	4,823.55	3	4,499.65	3	4,175.75	3	3,851.85	3	3,527.95	3	3,204.05	3	2,880.15	3	2,556.25
1/4	1/4	1/4	5,138.20	1/4	4,816.68	1/4	4,492.78	1/4	4,168.88	1/4	3,844.98	1/4	3,521.08	1/4	3,197.18	1/4	2,873.28	1/4	2,549.38
1/2	1/2	1/2	5,131.68	1/2	4,809.81	1/2	4,485.91	1/2	4,162.01	1/2	3,838.11	1/2	3,514.21	1/2	3,190.31	1/2	2,866.41	1/2	2,542.51
3/4	3/4	3/4	5,125.15	3/4	4,802.94	3/4	4,479.04	3/4	4,155.14	3/4	3,831.24	3/4	3,507.34	3/4	3,183.44	3/4	2,859.54	3/4	2,535.64
4	4	4	5,118.61	4	4,796.05	4	4,472.15	4	4,148.25	4	3,824.35	4	3,500.45	4	3,176.55	4	2,852.65	4	2,528.75
1/4	1/4	1/4	5,112.07	1/4	4,789.16	1/4	4,465.26	1/4	4,141.36	1/4	3,817.46	1/4	3,493.56	1/4	3,169.66	1/4	2,845.76	1/4	2,521.86
1/2	1/2	1/2	5,105.52	1/2	4,782.27	1/2	4,458.37	1/2	4,134.47	1/2	3,810.57	1/2	3,486.67	1/2	3,162.77	1/2	2,838.87	1/2	2,517.97
3/4	3/4	3/4	5,098.98	3/4	4,775.38	3/4	4,451.48	3/4	4,127.58	3/4	3,803.68	3/4	3,479.78	3/4	3,155.88	3/4	2,832.98	3/4	2,514.08
5	5	5	5,092.41	5	4,768.47	5	4,448.57	5	4,124.67	5	3,800.77	5	3,476.87	5	3,152.97	5	2,829.07	5	2,505.17
1/4	1/4	1/4	5,085.84	1/4	4,761.56	1/4	4,441.68	1/4	4,117.78	1/4	3,793.88	1/4	3,469.98	1/4	3,146.08	1/4	2,822.18	1/4	2,498.28
1/2	1/2	1/2	5,079.27	1/2	4,754.64	1/2	4,438.79	1/2	4,114.89	1/2	3,790.99	1/2	3,467.09	1/2	3,143.19	1/2	2,819.29	1/2	2,495.39
3/4	3/4	3/4	5,072.71	3/4	4,747.73	3/4	4,431.94	3/4	4,108.04	3/4	3,784.14	3/4	3,460.24	3/4	3,136.34	3/4	2,812.44	3/4	2,491.49
6	6	6	5,066.12	6	4,740.79	6	4,425.09	6	4,101.19	6	3,777.29	6	3,453.39	6	3,129.49	6	2,805.59	6	2,481.69
1/4	1/4	1/4	5,059.53	1/4	4,733.85	1/4	4,418.20	1/4	4,094.30	1/4	3,770.40	1/4	3,446.50	1/4	3,122.60	1/4	2,798.70	1/4	2,474.80
1/2	1/2	1/2	5,052.94	1/2	4,726.91	1/2	4,411.31	1/2	4,087.41	1/2	3,763.51	1/2	3,439.61	1/2	3,115.71	1/2	2,791.81	1/2	2,471.91
3/4	3/4	3/4	5,046.34	3/4	4,719.97	3/4	4,404.42	3/4	4,080.52	3/4	3,756.62	3/4	3,432.72	3/4	3,108.82	3/4	2,787.92	3/4	2,468.02
7	7	7	5,039.73	7	4,712.98	7	4,397.43	7	4,072.88	7	3,748.33	7	3,424.43	7	3,100.53	7	2,776.63	7	2,454.13
1/4	1/4	1/4	5,033.12	1/4	4,705.99	1/4	4,390.54	1/4	4,066.64	1/4	3,741.44	1/4	3,417.54	1/4	3,093.64	1/4	2,769.74	1/4	2,450.24
1/2	1/2	1/2	5,026.50	1/2	4,699.01	1/2	4,383.59	1/2	4,059.69	1/2	3,735.79	1/2	3,411.89	1/2	3,087.99	1/2	2,764.09	1/2	2,446.34
3/4	3/4	3/4	5,019.89	3/4	4,692.02	3/4	4,376.69	3/4	4,052.79	3/4	3,728.89	3/4	3,404.99	3/4	3,081.09	3/4	2,757.19	3/4	2,442.44
8	8	8	5,013.25	8	4,685.01	8	4,369.74	8	4,048.29	8	3,721.94	8	3,398.04	8	3,074.14	8	2,750.24	8	2,438.54
1/4	1/4	1/4	5,006.60	1/4	4,677.99	1/4	4,362.85	1/4	4,041.35	1/4	3,715.45	1/4	3,391.55	1/4	3,067.65	1/4	2,746.75	1/4	2,434.64
1/2	1/2	1/2	4,999.95	1/2	4,670.98	1/2	4,355.94	1/2	4,036.44	1/2	3,708.54	1/2	3,384.64	1/2	3,060.74	1/2	2,737.84	1/2	2,430.74
3/4	3/4	3/4	4,993.31	3/4	4,663.97	3/4	4,348.99	3/4	4,029.49	3/4	3,701.59	3/4	3,377.69	3/4	3,053.79	3/4	2,733.89	3/4	2,426.84
9	9	9	4,986.58	9	4,656.94	9	4,342.02	9	4,022.52	9	3,694.62	9	3,370.72	9	3,046.82	9	2,727.92	9	2,422.94
1/4	1/4	1/4	4,979.85	1/4	4,649.90	1/4	4,335.07	1/4	4,015.57	1/4	3,687.67	1/4	3,363.77	1/4	3,039.87	1/4	2,724.02	1/4	2,419.04
1/2	1/2	1/2	4,973.11	1/2	4,642.87	1/2	4,328.12	1/2	4,008.62	1/2	3,680.72	1/2	3,356.82	1/2	3,032.92	1/2	2,720.12	1/2	2,415.14
3/4	3/4	3/4	4,966.38	3/4	4,635.83	3/4	4,321.17	3/4	4,001.67	3/4	3,673.77	3/4	3,349.87	3/4	3,025.97	3/4	2,716.22	3/4	2,411.24
10	10	10	4,959.63	10	4,628.78	10	4,314.22	10	3,994.77	10	3,666.87	10	3,338.97	10	3,018.07	10	2,712.32	10	2,407.34
1/4	1/4	1/4	4,952.87	1/4	4,621.72	1/4	4,307.27	1/4	3,987.82	1/4	3,659.92	1/4	3,332.02	1/4	3,011.12	1/4	2,708.42	1/4	2,403.44
1/2	1/2	1/2	4,946.12	1/2	4,614.66	1/2	4,299.32	1/2	3,980.87	1/2	3,653.97	1/2	3,325.07	1/2	3,006.17	1/2	2,704.52	1/2	2,400.54
3/4	3/4	3/4	4,939.37	3/4	4,607.60	3/4	4,292.37	3/4	3,973.92	3/4	3,646.02	3/4	3,318.12	3/4	3,000.22	3/4	2,700.62	3/4	2,396.64
11	11	11	4,932.59	11	4,600.52	11	4,285.42	11	3,968.47	11	3,640.57	11	3,311.67	11	2,993.77	11	2,675.87	11	2,392.74
1/4	1/4	1/4	4,925.82	1/4	4,593.44	1/4	4,278.47	1/4	3,961.52	1/4	3,633.62	1/4	3,304.72	1/4	2,986.82	1/4	2,668.92	1/4	2,388.84
1/2	1/2	1/2	4,919.04	1/2	4,586.36	1/2	4,271.52	1/2	3,954.57	1/2	3,626.67	1/2	3,297.77	1/2	2,980.87	1/2	2,664.02	1/2	2,384.94
3/4	3/4	3/4	4,912.27	3/4	4,579.28	3/4	4,264.57	3/4	3,947.62	3/4	3,619.72	3/4	3,290.82	3/4	2,973.92	3/4	2,659.02	3/4	2,381.04

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARRE STRAPPED AND COMPUTED IN ACCORDANCE WITH MIPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pimacorp.net>



BARGE "EMS 523"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1247

GAUGE HEIGHT 15'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,047.07	0	1,683.44	0	1,319.82	0	958.29	0	594.95	0	231.34	0		0		0			
1/4	2,039.50	1/4	1,675.87	1/4	1,312.24	1/4	950.76	1/4	587.38	1/4	223.76	1/4		1/4		1/4			
1/2	2,031.92	1/2	1,668.29	1/2	1,304.66	1/2	943.24	1/2	579.80	1/2	216.19	1/2		1/2		1/2			
3/4	2,024.35	3/4	1,660.72	3/4	1,297.09	3/4	935.71	3/4	572.23	3/4	208.61	3/4		3/4		3/4			
1	2,016.77	1	1,653.14	1	1,289.52	1	928.17	1	564.65	1	201.04	1		1		1			
1 1/4	2,009.20	1 1/4	1,645.57	1 1/4	1,281.95	1 1/4	920.63	1 1/4	557.08	1 1/4	193.46	1 1/4		1 1/4		1 1/4			
1 1/2	2,001.62	1 1/2	1,637.99	1 1/2	1,274.38	1 1/2	913.08	1 1/2	549.50	1 1/2	185.89	1 1/2		1 1/2		1 1/2			
3/4	1,994.04	3/4	1,630.42	3/4	1,266.81	3/4	905.54	3/4	541.93	3/4	178.31	3/4		3/4		3/4			
2	1,986.47	2	1,622.84	2	1,259.27	2	897.97	2	534.35	2	170.74	2		2		2			
1 1/4	1,978.89	1 1/4	1,615.26	1 1/4	1,251.74	1 1/4	890.39	1 1/4	526.78	1 1/4	163.16	1 1/4		1 1/4		1 1/4			
1 1/2	1,971.32	1 1/2	1,607.69	1 1/2	1,244.20	1 1/2	882.81	1 1/2	519.20	1 1/2	155.59	1 1/2		1 1/2		1 1/2			
3/4	1,963.74	3/4	1,600.11	3/4	1,236.67	3/4	875.24	3/4	511.63	3/4	148.01	3/4		3/4		3/4			
3	1,956.17	3	1,592.54	3	1,229.14	3	867.66	3	504.05	3	140.44	3		3		3			
1 1/4	1,948.59	1 1/4	1,584.96	1 1/4	1,221.62	1 1/4	860.09	1 1/4	496.47	1 1/4	132.86	1 1/4		1 1/4		1 1/4			
1 1/2	1,941.02	1 1/2	1,577.39	1 1/2	1,214.10	1 1/2	852.51	1 1/2	488.90	1 1/2	125.28	1 1/2		1 1/2		1 1/2			
3/4	1,933.44	3/4	1,569.81	3/4	1,206.57	3/4	844.94	3/4	481.32	3/4	117.71	3/4		3/4		3/4			
4	1,925.86	4	1,562.24	4	1,199.05	4	837.36	4	473.75	4	110.21	4		4		4			
1 1/4	1,918.29	1 1/4	1,554.66	1 1/4	1,191.53	1 1/4	829.79	1 1/4	466.17	1 1/4	102.72	1 1/4		1 1/4		1 1/4			
1 1/2	1,910.71	1 1/2	1,547.08	1 1/2	1,184.00	1 1/2	822.21	1 1/2	458.60	1 1/2	95.22	1 1/2		1 1/2		1 1/2			
3/4	1,903.14	3/4	1,539.51	3/4	1,176.48	3/4	814.64	3/4	451.02	3/4	87.72	3/4		3/4		3/4			
5	1,895.56	5	1,531.93	5	1,168.95	5	807.06	5	443.45	5	80.94	5		5		5			
1 1/4	1,887.99	1 1/4	1,524.36	1 1/4	1,161.43	1 1/4	799.49	1 1/4	435.87	1 1/4	74.15	1 1/4		1 1/4		1 1/4			
1 1/2	1,880.41	1 1/2	1,516.78	1 1/2	1,153.91	1 1/2	791.91	1 1/2	428.30	1 1/2	67.37	1 1/2		1 1/2		1 1/2			
3/4	1,872.83	3/4	1,509.21	3/4	1,146.38	3/4	784.34	3/4	420.72	3/4	60.58	3/4		3/4		3/4			
6	1,865.26	6	1,501.63	6	1,138.86	6	776.76	6	413.15	6	55.06	6		6		6			
1 1/4	1,857.68	1 1/4	1,494.05	1 1/4	1,131.34	1 1/4	768.19	1 1/4	405.57	1 1/4	49.53	1 1/4		1 1/4		1 1/4			
1 1/2	1,850.11	1 1/2	1,486.48	1 1/2	1,123.81	1 1/2	761.61	1 1/2	398.00	1 1/2	44.01	1 1/2		1 1/2		1 1/2			
3/4	1,842.53	3/4	1,478.90	3/4	1,116.29	3/4	754.03	3/4	390.42	3/4	38.49	3/4		3/4		3/4			
7	1,834.96	7	1,471.33	7	1,108.76	7	746.46	7	382.85	7	34.23	7		7		7			
1 1/4	1,827.38	1 1/4	1,463.75	1 1/4	1,101.24	1 1/4	738.88	1 1/4	375.27	1 1/4	29.97	1 1/4		1 1/4		1 1/4			
1 1/2	1,819.81	1 1/2	1,456.18	1 1/2	1,093.72	1 1/2	731.31	1 1/2	367.69	1 1/2	25.71	1 1/2		1 1/2		1 1/2			
3/4	1,812.23	3/4	1,448.60	3/4	1,086.19	3/4	723.73	3/4	360.12	3/4	21.45	3/4		3/4		3/4			
8	1,804.65	8	1,441.03	8	1,078.67	8	716.16	8	352.54	8		8		8		8			
1 1/4	1,797.08	1 1/4	1,433.45	1 1/4	1,071.15	1 1/4	708.58	1 1/4	344.97	1 1/4		1 1/4		1 1/4		1 1/4			
1 1/2	1,789.50	1 1/2	1,425.87	1 1/2	1,063.62	1 1/2	701.01	1 1/2	337.39	1 1/2		1 1/2		1 1/2		1 1/2			
3/4	1,781.93	3/4	1,418.30	3/4	1,056.10	3/4	693.43	3/4	329.82	3/4		3/4		3/4		3/4			
9	1,774.35	9	1,410.72	9	1,048.57	9	685.86	9	322.24	9		9		9		9			
1 1/4	1,766.78	1 1/4	1,403.15	1 1/4	1,041.05	1 1/4	678.28	1 1/4	314.67	1 1/4		1 1/4		1 1/4		1 1/4			
1 1/2	1,759.20	1 1/2	1,395.57	1 1/2	1,033.53	1 1/2	670.71	1 1/2	307.09	1 1/2		1 1/2		1 1/2		1 1/2			
3/4	1,751.63	3/4	1,388.00	3/4	1,026.00	3/4	663.13	3/4	299.52	3/4		3/4		3/4		3/4			
10	1,744.05	10	1,380.42	10	1,018.48	10	655.56	10	291.94	10		10		10		10			
1 1/4	1,736.47	1 1/4	1,372.85	1 1/4	1,010.95	1 1/4	647.98	1 1/4	284.37	1 1/4		1 1/4		1 1/4		1 1/4			
1 1/2	1,728.90	1 1/2	1,365.27	1 1/2	1,003.43	1 1/2	640.41	1 1/2	276.79	1 1/2		1 1/2		1 1/2		1 1/2			
3/4	1,721.32	3/4	1,357.69	3/4	995.91	3/4	632.83	3/4	269.22	3/4		3/4		3/4		3/4			
11	1,713.75	11	1,350.12	11	988.38	11	625.25	11	261.64	11		11		11		11			
1 1/4	1,706.17	1 1/4	1,342.54	1 1/4	980.86	1 1/4	617.68	1 1/4	254.06	1 1/4		1 1/4		1 1/4		1 1/4			
1 1/2	1,698.60	1 1/2	1,334.97	1 1/2	973.34	1 1/2	610.10	1 1/2	246.49	1 1/2		1 1/2		1 1/2		1 1/2			
3/4	1,691.02	3/4	1,327.39	3/4	965.81	3/4	602.53	3/4	238.91	3/4		3/4		3/4		3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/27/2020 CL
CALCULATED: 04/28/2020 CL
PRINTED: 04/28/2020 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>

2 PORT

ULLAGE TABLE

LAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1247

GAUGE HEIGHT 15'-08 1/4"

[illegible]

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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SHEET NO. 5 OF 12



2 PORT

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1247

GAUGE HEIGHT 15'-08 1/4"

	10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN
0	2,057.37	1/4	1,694.93	1/4	1,332.49	0	970.48	0	608.11	0	238.68	0	0	0	0	0	0	0	0	0
1/4	2,049.82	1/4	1,687.38	1/4	1,324.94	0	962.94	1/4	600.56	1/4	234.13	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,042.27	1/2	1,679.83	1/2	1,317.38	1/2	955.41	1/2	593.01	1/2	230.58	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,034.72	3/4	1,672.28	3/4	1,309.83	3/4	947.87	3/4	585.46	3/4	223.03	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,027.17	1	1,664.73	1	1,302.28	1	940.33	1	577.91	1	215.48	1	1	1	1	1	1	1	1	1
1/4	2,019.62	1/4	1,657.18	1/4	1,294.73	1/4	932.79	1/4	570.36	1/4	207.93	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,012.07	1/2	1,649.62	1/2	1,287.18	1/2	925.24	1/2	562.81	1/2	200.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,004.52	3/4	1,642.07	3/4	1,279.63	3/4	917.69	3/4	555.26	3/4	192.83	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,996.97	2	1,634.52	2	1,272.08	2	910.14	2	547.71	2	185.28	2	2	2	2	2	2	2	2	2
1/4	1,989.41	1/4	1,626.97	1/4	1,264.53	1/4	902.59	1/4	540.16	1/4	177.73	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,981.86	1/2	1,619.42	1/2	1,256.98	1/2	895.04	1/2	532.61	1/2	170.18	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,974.31	3/4	1,611.87	3/4	1,249.43	3/4	887.49	3/4	525.06	3/4	162.63	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,966.76	3	1,604.32	3	1,241.88	3	879.94	3	517.51	3	155.08	3	3	3	3	3	3	3	3	3
1/4	1,959.21	1/4	1,596.77	1/4	1,234.33	1/4	872.38	1/4	509.96	1/4	147.53	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,951.66	1/2	1,589.22	1/2	1,226.66	1/2	864.83	1/2	502.41	1/2	139.98	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,944.11	3/4	1,581.67	3/4	1,219.25	3/4	857.28	3/4	494.85	3/4	132.43	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,936.56	4	1,574.12	4	1,211.71	4	849.73	4	487.30	4	124.88	4	4	4	4	4	4	4	4	4
1/4	1,928.01	1/4	1,566.56	1/4	1,204.18	1/4	842.18	1/4	479.75	1/4	117.32	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,921.46	1/2	1,559.01	1/2	1,196.64	1/2	834.63	1/2	472.20	1/2	109.85	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,913.91	3/4	1,551.46	3/4	1,189.10	3/4	827.08	3/4	464.65	3/4	102.38	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,906.36	5	1,543.91	5	1,181.56	5	819.53	5	457.10	5	94.91	5	5	5	5	5	5	5	5	5
1/4	1,898.80	1/4	1,536.36	1/4	1,174.02	1/4	811.98	1/4	449.55	1/4	87.44	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,891.25	1/2	1,528.81	1/2	1,166.48	1/2	804.43	1/2	442.00	1/2	80.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,883.70	3/4	1,521.26	3/4	1,158.94	3/4	796.88	3/4	434.45	3/4	73.91	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,876.15	6	1,513.71	6	1,151.41	6	789.33	6	426.90	6	67.15	6	6	6	6	6	6	6	6	6
1/4	1,868.60	1/4	1,506.16	1/4	1,143.87	1/4	781.78	1/4	419.35	1/4	60.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,861.05	1/2	1,498.61	1/2	1,136.33	1/2	774.23	1/2	411.80	1/2	54.88	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,853.50	3/4	1,491.06	3/4	1,128.79	3/4	766.68	3/4	404.25	3/4	48.37	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,845.95	7	1,483.50	7	1,121.25	7	759.13	7	396.70	7	43.87	7	7	7	7	7	7	7	7	7
1/4	1,838.40	1/4	1,475.95	1/4	1,113.71	1/4	751.57	1/4	389.15	1/4	38.36	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,830.85	1/2	1,468.40	1/2	1,106.18	1/2	744.02	1/2	381.60	1/2	34.12	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,823.30	3/4	1,460.85	3/4	1,098.64	3/4	736.47	3/4	374.04	3/4	29.87	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,815.74	8	1,453.30	8	1,091.10	8	728.92	8	366.49	8	25.62	8	8	8	8	8	8	8	8	8
1/4	1,808.19	1/4	1,445.75	1/4	1,083.56	1/4	721.37	1/4	358.94	1/4	21.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,800.64	1/2	1,438.20	1/2	1,076.02	1/2	713.82	1/2	351.39	1/2	21.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,793.09	3/4	1,430.65	3/4	1,068.48	3/4	706.27	3/4	343.84	3/4	21.38	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,785.54	9	1,423.10	9	1,060.94	9	698.72	9	336.29	9	21.38	9	9	9	9	9	9	9	9	9
1/4	1,777.99	1/4	1,415.55	1/4	1,053.41	1/4	691.17	1/4	328.74	1/4	21.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,770.44	1/2	1,408.00	1/2	1,045.87	1/2	683.62	1/2	321.19	1/2	21.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,762.89	3/4	1,400.44	3/4	1,038.33	3/4	676.07	3/4	313.64	3/4	21.38	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,755.34	10	1,392.89	10	1,030.79	10	668.52	10	306.09	10	21.38	10	10	10	10	10	10	10	10	10
1/4	1,747.79	1/4	1,385.34	1/4	1,023.25	1/4	660.97	1/4	298.54	1/4	21.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,740.24	1/2	1,377.79	1/2	1,015.71	1/2	653.42	1/2	290.99	1/2	21.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,732.68	3/4	1,370.24	3/4	1,008.17	3/4	645.87	3/4	283.44	3/4	21.38	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,725.13	11	1,362.69	11	1,000.64	11	638.32	11	275.89	11	21.38	11	11	11	11	11	11	11	11	11
1/4	1,717.58	1/4	1,355.14	1/4	993.10	1/4	630.77	1/4	268.34	1/4	21.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,710.03	1/2	1,347.59	1/2	985.56	1/2	623.21	1/2	260.79	1/2	21.38	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,702.48	3/4	1,340.04	3/4	978.02	3/4	615.66	3/4	253.24	3/4	21.38	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY

STRAPPED: 04/27/2020 CL

CALCULATED: 04/28/2020 C

PRINTED: 04/28/2020 CL

CANCELS AND SUPERCEDES

ALL PRIOR TO 04/2020

SHEET NO. 6 OF 12

PRECISION MEASUREMENT

& ANALYSIS, INC

P.O. Box 2092

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BARGE "EMS 523"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1247

GAUGE HEIGHT 15'-08"

IN	0 FT.	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.
0	0	5,183.08	4,871.15	4,540.09	4,194.99	3,837.12	3,475.61	3,114.10	2,752.60	2,391.01
1/4	1/4	5,172.98	4,864.39	4,533.02	4,187.65	3,829.59	3,468.08	3,106.57	2,745.06	2,383.47
1/2	1/2	5,172.87	4,857.63	4,525.96	4,180.31	3,822.05	3,460.55	3,099.04	2,737.53	2,375.94
3/4	3/4	5,167.77	4,850.87	4,518.90	4,172.97	3,814.52	3,453.02	3,091.51	2,730.00	2,368.41
1	1	5,162.67	4,844.11	4,511.83	4,165.63	3,806.99	3,445.48	3,083.98	2,722.47	2,360.87
1/4	1/4	5,156.35	4,837.33	4,504.75	4,158.27	3,799.46	3,437.95	3,076.45	2,714.94	2,353.34
1/2	1/2	5,150.04	4,830.55	4,497.66	4,150.91	3,791.93	3,430.42	3,068.91	2,707.41	2,345.80
3/4	3/4	5,143.72	4,823.77	4,490.57	4,143.55	3,784.40	3,422.89	3,061.38	2,699.88	2,338.27
2	2	5,137.41	4,816.99	4,483.49	4,136.19	3,776.87	3,415.36	3,053.85	2,692.34	2,330.74
1/4	1/4	5,130.23	4,810.18	4,476.38	4,128.80	3,769.33	3,407.83	3,046.32	2,684.81	2,323.20
1/2	1/2	5,123.06	4,803.38	4,469.27	4,121.42	3,761.80	3,400.30	3,038.79	2,677.28	2,315.67
3/4	3/4	5,115.88	4,796.58	4,462.16	4,114.03	3,754.27	3,392.76	3,031.26	2,669.75	2,308.13
3	3	5,108.70	4,789.77	4,455.05	4,106.65	3,746.74	3,385.23	3,023.73	2,662.22	2,300.60
1/4	1/4	5,102.22	4,782.94	4,447.92	4,099.24	3,739.21	3,377.70	3,016.19	2,654.69	2,293.06
1/2	1/2	5,095.74	4,776.12	4,440.79	4,091.83	3,731.68	3,370.17	3,008.66	2,647.16	2,285.53
3/4	3/4	5,089.25	4,769.29	4,433.66	4,084.42	3,724.15	3,362.64	3,001.13	2,639.62	2,278.00
4	4	5,082.77	4,762.46	4,426.52	4,077.02	3,716.62	3,355.11	2,993.60	2,632.09	2,270.46
1/4	1/4	5,076.27	4,755.61	4,419.37	4,069.58	3,709.08	3,347.58	2,986.07	2,624.56	2,262.93
1/2	1/2	5,069.76	4,748.76	4,412.21	4,062.15	3,701.55	3,340.05	2,978.54	2,617.03	2,255.39
3/4	3/4	5,063.26	4,741.91	4,405.06	4,054.72	3,694.02	3,332.51	2,971.01	2,609.50	2,247.86
5	5	5,056.75	4,735.06	4,397.90	4,047.29	3,686.49	3,324.98	2,963.48	2,601.96	2,240.33
1/4	1/4	5,050.22	4,728.19	4,390.73	4,039.34	3,678.96	3,317.45	2,955.94	2,594.43	2,232.79
1/2	1/2	5,043.69	4,721.32	4,383.55	4,032.38	3,671.43	3,309.92	2,948.41	2,586.89	2,225.26
3/4	3/4	5,037.17	4,714.44	4,376.37	4,024.93	3,663.90	3,302.39	2,940.88	2,579.36	2,217.72
6	6	5,030.64	4,707.57	4,369.19	4,017.48	3,656.36	3,294.86	2,933.35	2,571.83	2,210.19
1/4	1/4	5,024.09	4,700.67	4,361.99	4,010.00	3,648.83	3,287.33	2,925.82	2,564.29	2,202.66
1/2	1/2	5,017.54	4,693.77	4,354.79	4,002.52	3,641.30	3,279.79	2,918.29	2,556.76	2,195.12
3/4	3/4	5,010.98	4,686.87	4,347.59	3,995.05	3,633.77	3,272.26	2,910.76	2,549.22	2,187.59
7	7	5,004.43	4,679.97	4,340.38	3,987.57	3,626.24	3,264.73	2,903.22	2,541.69	2,180.05
1/4	1/4	4,997.86	4,673.02	4,333.16	3,980.07	3,618.71	3,257.20	2,895.69	2,534.16	2,172.52
1/2	1/2	4,991.28	4,666.07	4,325.94	3,972.57	3,611.18	3,249.67	2,888.16	2,526.62	2,164.98
3/4	3/4	4,984.71	4,659.13	4,318.72	3,965.07	3,603.64	3,242.14	2,880.63	2,519.09	2,157.45
8	8	4,978.14	4,652.18	4,311.49	3,957.57	3,596.11	3,234.61	2,873.10	2,511.55	2,149.92
1/4	1/4	4,971.53	4,645.21	4,304.24	3,950.05	3,588.58	3,227.07	2,865.57	2,504.02	2,142.38
1/2	1/2	4,964.92	4,638.23	4,297.00	3,942.51	3,581.05	3,219.54	2,858.04	2,496.49	2,134.85
3/4	3/4	4,958.32	4,631.26	4,289.75	3,935.01	3,573.52	3,212.01	2,850.50	2,488.95	2,127.31
9	9	4,951.71	4,624.29	4,282.50	3,927.49	3,565.99	3,204.48	2,842.97	2,481.42	2,119.78
1/4	1/4	4,945.02	4,617.30	4,275.23	3,919.96	3,558.46	3,196.95	2,835.44	2,473.88	2,112.25
1/2	1/2	4,938.33	4,610.30	4,267.96	3,912.42	3,550.92	3,189.42	2,827.91	2,466.35	2,104.71
3/4	3/4	4,931.64	4,603.31	4,260.69	3,904.90	3,543.39	3,181.89	2,820.38	2,458.81	2,097.18
10	10	4,924.95	4,596.32	4,253.42	3,897.37	3,535.86	3,174.35	2,812.85	2,451.28	2,089.64
1/4	1/4	4,918.23	4,589.30	4,246.13	3,889.84	3,528.33	3,166.82	2,805.32	2,443.75	2,082.11
1/2	1/2	4,911.52	4,582.28	4,238.84	3,882.31	3,520.80	3,159.29	2,797.78	2,436.21	2,074.58
3/4	3/4	4,904.80	4,575.26	4,231.55	3,874.77	3,513.27	3,151.76	2,790.25	2,428.68	2,067.04
11	11	4,898.09	4,568.25	4,224.25	3,867.24	3,505.74	3,144.23	2,782.72	2,421.14	2,059.51
1/4	1/4	4,891.35	4,561.21	4,216.94	3,859.71	3,498.20	3,136.70	2,775.19	2,413.61	2,051.97
1/2	1/2	4,884.62	4,554.17	4,209.62	3,852.18	3,490.67	3,129.17	2,767.66	2,406.08	2,044.44
3/4	3/4	4,877.88	4,547.13	4,202.30	3,844.65	3,483.14	3,121.63	2,760.13	2,398.54	2,036.91

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH IPIPS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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Pearland, Texas 77588

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BARGE "EMS 523"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS										HULL # C-1247										GAUGE HEIGHT 15'-08"									
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.										
0	2,029.37	0	1,667.73	0	1,306.10	0	958.33	0	599.24	0	237.61	0		0		0		0											
1/4	2,021.84	1/4	1,660.20	1/4	1,298.56	1/4	951.13	1/4	591.70	1/4	230.07	1/4		1/4		1/4		1/4											
1/2	2,014.30	1/2	1,652.67	1/2	1,291.03	1/2	943.94	1/2	584.17	1/2	222.54	1/2		1/2		1/2		1/2											
3/4	2,006.77	3/4	1,645.13	3/4	1,283.50	3/4	936.75	3/4	576.63	3/4	215.01	3/4		3/4		3/4		3/4											
1	1,999.23	1	1,637.60	1	1,275.96	1	929.56	1	569.10	1	207.47	1		1		1		1											
1/4	1,991.70	1/4	1,630.06	1/4	1,268.47	1/4	922.32	1/4	561.57	1/4	199.94	1/4		1/4		1/4		1/4											
1/2	1,984.17	1/2	1,622.53	1/2	1,260.98	1/2	915.07	1/2	554.03	1/2	192.40	1/2		1/2		1/2		1/2											
3/4	1,976.63	3/4	1,615.00	3/4	1,253.48	3/4	907.83	3/4	546.50	3/4	184.87	3/4		3/4		3/4		3/4											
2	1,969.10	2	1,607.46	2	1,245.99	2	900.59	2	538.96	2	177.34	2		2		2		2											
1/4	1,961.56	1/4	1,599.93	1/4	1,238.79	1/4	893.06	1/4	531.43	1/4	169.80	1/4		1/4		1/4		1/4											
1/2	1,954.03	1/2	1,592.39	1/2	1,231.59	1/2	885.52	1/2	523.90	1/2	162.27	1/2		1/2		1/2		1/2											
3/4	1,946.50	3/4	1,584.86	3/4	1,224.39	3/4	877.99	3/4	516.36	3/4	154.73	3/4		3/4		3/4		3/4											
3	1,938.96	3	1,577.33	3	1,217.18	3	870.46	3	508.83	3	147.20	3		3		3		3											
1/4	1,931.43	1/4	1,569.79	1/4	1,209.99	1/4	862.92	1/4	501.29	1/4	139.67	1/4		1/4		1/4		1/4											
1/2	1,923.89	1/2	1,562.26	1/2	1,202.80	1/2	855.39	1/2	493.76	1/2	132.13	1/2		1/2		1/2		1/2											
3/4	1,916.36	3/4	1,554.72	3/4	1,195.61	3/4	847.85	3/4	486.23	3/4	124.60	3/4		3/4		3/4		3/4											
4	1,908.83	4	1,547.19	4	1,188.42	4	840.32	4	478.69	4	117.07	4		4		4		4											
1/4	1,901.29	1/4	1,539.65	1/4	1,181.23	1/4	832.79	1/4	471.16	1/4	109.61	1/4		1/4		1/4		1/4											
1/2	1,893.76	1/2	1,532.12	1/2	1,174.04	1/2	825.25	1/2	463.62	1/2	102.15	1/2		1/2		1/2		1/2											
3/4	1,886.22	3/4	1,524.59	3/4	1,166.85	3/4	817.72	3/4	456.09	3/4	94.70	3/4		3/4		3/4		3/4											
5	1,878.69	5	1,517.05	5	1,159.66	5	810.18	5	448.56	5	87.24	5		5		5		5											
1/4	1,871.15	1/4	1,509.52	1/4	1,152.47	1/4	802.65	1/4	441.02	1/4	80.50	1/4		1/4		1/4		1/4											
1/2	1,863.62	1/2	1,501.98	1/2	1,145.28	1/2	795.12	1/2	433.49	1/2	73.75	1/2		1/2		1/2		1/2											
3/4	1,856.09	3/4	1,494.45	3/4	1,138.09	3/4	787.58	3/4	425.96	3/4	67.00	3/4		3/4		3/4		3/4											
6	1,848.55	6	1,486.92	6	1,130.90	6	780.05	6	418.42	6	60.25	6		6		6		6											
1/4	1,841.02	1/4	1,479.38	1/4	1,123.71	1/4	772.51	1/4	410.89	1/4	54.76	1/4		1/4		1/4		1/4											
1/2	1,833.48	1/2	1,471.85	1/2	1,116.52	1/2	764.98	1/2	403.35	1/2	49.26	1/2		1/2		1/2		1/2											
3/4	1,825.95	3/4	1,464.31	3/4	1,109.33	3/4	757.45	3/4	395.82	3/4	43.77	3/4		3/4		3/4		3/4											
7	1,818.42	7	1,456.78	7	1,102.14	7	749.91	7	388.29	7	38.28	7		7		7		7											
1/4	1,810.88	1/4	1,449.25	1/4	1,094.95	1/4	742.38	1/4	380.75	1/4	34.04	1/4		1/4		1/4		1/4											
1/2	1,803.35	1/2	1,441.71	1/2	1,087.76	1/2	734.85	1/2	373.22	1/2	29.81	1/2		1/2		1/2		1/2											
3/4	1,795.81	3/4	1,434.18	3/4	1,080.57	3/4	727.31	3/4	365.68	3/4	25.57	3/4		3/4		3/4		3/4											
8	1,788.28	8	1,426.64	8	1,073.37	8	719.78	8	358.15	8	21.33	8		8		8		8											
1/4	1,780.75	1/4	1,419.11	1/4	1,066.18	1/4	712.24	1/4	350.62	1/4	—	1/4		1/4		1/4		1/4											
1/2	1,773.21	1/2	1,411.57	1/2	1,058.99	1/2	704.71	1/2	343.08	1/2	—	1/2		1/2		1/2		1/2											
3/4	1,765.68	3/4	1,404.04	3/4	1,051.80	3/4	697.18	3/4	335.55	3/4	—	3/4		3/4		3/4		3/4											
9	1,758.14	9	1,396.51	9	1,044.61	9	689.64	9	328.01	9	—	9		9		9		9											
1/4	1,750.61	1/4	1,388.97	1/4	1,037.42	1/4	682.11	1/4	320.48	1/4	—	1/4		1/4		1/4		1/4											
1/2	1,743.08	1/2	1,381.44	1/2	1,030.23	1/2	674.57	1/2	312.95	1/2	—	1/2		1/2		1/2		1/2											
3/4	1,735.54	3/4	1,373.90	3/4	1,023.04	3/4	667.04	3/4	305.41	3/4	—	3/4		3/4		3/4		3/4											
10	1,728.01	10	1,366.37	10	1,015.85	10	659.51	10	297.88	10	—	10		10		10		10											
1/4	1,720.47	1/4	1,358.84	1/4	1,008.66	1/4	651.97	1/4	290.35	1/4	—	1/4		1/4		1/4		1/4											
1/2	1,712.94	1/2	1,351.30	1/2	1,001.47	1/2	644.44	1/2	282.81	1/2	—	1/2		1/2		1/2		1/2											
3/4	1,705.40	3/4	1,343.77	3/4	994.28	3/4	636.90	3/4	275.28	3/4	—	3/4		3/4		3/4		3/4											
11	1,697.87	11	1,336.23	11	987.09	11	629.37	11	267.74	11	—	11		11		11		11											
1/4	1,690.34	1/4	1,328.70	1/4	979.90	1/4	621.84	1/4	260.21	1/4	—	1/4		1/4		1/4		1/4											
1/2	1,682.80	1/2	1,321.17	1/2	972.71	1/2	614.30	1/2	252.68	1/2	—	1/2		1/2		1/2		1/2											
3/4	1,675.27	3/4	1,313.63	3/4	965.52	3/4	606.77	3/4	245.14	3/4	—	3/4		3/4		3/4		3/4											

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/27/2020 CL
CALCULATED: 04/28/2020 CL
PRINTED: 04/28/2020 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
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Pearland, Texas 77588
<http://www.pmacorp.net>



CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1247

GAUGE HEIGHT 15'-08 1/4"

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" DIAMETER "HERMETIC" VALVE

Gauge Point: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD

SHEET NO. 9 OF 12

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

Rebecca



BARGE "EMS 523"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS										HULL # C-1247										GAUGE HEIGHT 15'-08 1/4"									
IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.										
0	2,050.61	0	1,689.38	0	1,328.15	0	967.23	0	606.08	0	244.87	0		0		0		0											
1/4	2,043.08	1/4	1,681.85	1/4	1,320.62	1/4	959.71	1/4	598.56	1/4	237.34	1/4		1/4		1/4		1/4											
1/2	2,035.56	1/2	1,674.33	1/2	1,313.10	1/2	952.20	1/2	591.03	1/2	229.82	1/2		1/2		1/2		1/2											
3/4	2,028.03	3/4	1,666.80	3/4	1,305.57	3/4	944.68	3/4	583.51	3/4	222.29	3/4		3/4		3/4		3/4											
1	2,020.50	1	1,659.28	1	1,298.05	1	937.16	1	575.98	1	214.77	1		1		1		1											
1/4	2,012.98	1/4	1,651.75	1/4	1,290.52	1/4	929.65	1/4	568.45	1/4	207.24	1/4		1/4		1/4		1/4											
1/2	2,005.45	1/2	1,644.22	1/2	1,283.00	1/2	922.13	1/2	560.93	1/2	199.72	1/2		1/2		1/2		1/2											
3/4	1,997.93	3/4	1,636.70	3/4	1,275.47	3/4	914.61	3/4	553.40	3/4	192.19	3/4		3/4		3/4		3/4											
2	1,990.40	2	1,629.17	2	1,267.94	2	907.09	2	545.88	2	184.66	2		2		2		2											
1/4	1,982.88	1/4	1,621.65	1/4	1,260.42	1/4	899.57	1/4	538.35	1/4	177.14	1/4		1/4		1/4		1/4											
1/2	1,975.35	1/2	1,614.12	1/2	1,252.89	1/2	892.04	1/2	530.83	1/2	169.61	1/2		1/2		1/2		1/2											
3/4	1,967.83	3/4	1,606.60	3/4	1,245.37	3/4	884.52	3/4	523.30	3/4	162.09	3/4		3/4		3/4		3/4											
3	1,960.30	3	1,599.07	3	1,237.84	3	876.99	3	515.78	3	154.56	3		3		3		3											
1/4	1,952.77	1/4	1,591.55	1/4	1,230.32	1/4	869.47	1/4	508.25	1/4	147.04	1/4		1/4		1/4		1/4											
1/2	1,945.25	1/2	1,584.02	1/2	1,222.80	1/2	861.94	1/2	500.73	1/2	139.51	1/2		1/2		1/2		1/2											
3/4	1,937.72	3/4	1,576.49	3/4	1,215.27	3/4	854.42	3/4	493.20	3/4	131.99	3/4		3/4		3/4		3/4											
4	1,930.20	4	1,568.97	4	1,207.75	4	846.89	4	485.68	4	124.46	4		4		4		4											
1/4	1,922.67	1/4	1,561.44	1/4	1,200.23	1/4	839.37	1/4	478.15	1/4	116.94	1/4		1/4		1/4		1/4											
1/2	1,915.15	1/2	1,553.92	1/2	1,192.71	1/2	831.84	1/2	470.63	1/2	109.49	1/2		1/2		1/2		1/2											
3/4	1,907.62	3/4	1,546.39	3/4	1,185.20	3/4	824.31	3/4	463.10	3/4	102.04	3/4		3/4		3/4		3/4											
5	1,900.10	5	1,538.87	5	1,177.68	5	816.79	5	455.58	5	94.60	5		5		5		5											
1/4	1,892.57	1/4	1,531.34	1/4	1,170.17	1/4	809.26	1/4	448.05	1/4	87.15	1/4		1/4		1/4		1/4											
1/2	1,885.04	1/2	1,523.82	1/2	1,162.65	1/2	801.74	1/2	440.52	1/2	80.41	1/2		1/2		1/2		1/2											
3/4	1,877.52	3/4	1,516.29	3/4	1,155.13	3/4	794.21	3/4	433.00	3/4	73.67	3/4		3/4		3/4		3/4											
6	1,869.99	6	1,508.76	6	1,147.62	6	786.69	6	425.47	6	66.93	6		6		6		6											
1/4	1,862.47	1/4	1,501.24	1/4	1,140.10	1/4	779.16	1/4	417.95	1/4	60.18	1/4		1/4		1/4		1/4											
1/2	1,854.94	1/2	1,493.71	1/2	1,132.58	1/2	771.64	1/2	410.42	1/2	54.70	1/2		1/2		1/2		1/2											
3/4	1,847.42	3/4	1,486.19	3/4	1,125.07	3/4	764.11	3/4	402.90	3/4	49.21	3/4		3/4		3/4		3/4											
7	1,839.89	7	1,478.66	7	1,117.55	7	756.59	7	395.37	7	43.72	7		7		7		7											
1/4	1,832.36	1/4	1,471.14	1/4	1,110.04	1/4	749.06	1/4	387.85	1/4	38.24	1/4		1/4		1/4		1/4											
1/2	1,824.84	1/2	1,463.61	1/2	1,102.52	1/2	741.54	1/2	380.32	1/2	34.01	1/2		1/2		1/2		1/2											
3/4	1,817.31	3/4	1,456.08	3/4	1,095.00	3/4	734.01	3/4	372.80	3/4	29.77	3/4		3/4		3/4		3/4											
8	1,809.79	8	1,448.56	8	1,087.49	8	726.49	8	365.27	8	25.54	8		8		8		8											
1/4	1,802.26	1/4	1,441.03	1/4	1,079.97	1/4	718.96	1/4	357.75	1/4	21.31	1/4		1/4		1/4		1/4											
1/2	1,794.74	1/2	1,433.51	1/2	1,072.46	1/2	711.44	1/2	350.22	1/2	=====	1/2		1/2		1/2		1/2											
3/4	1,787.21	3/4	1,425.98	3/4	1,064.94	3/4	703.91	3/4	342.70	3/4		3/4		3/4		3/4		3/4											
9	1,779.69	9	1,418.46	9	1,057.42	9	696.38	9	335.17	9		9		9		9		9											
1/4	1,772.16	1/4	1,410.93	1/4	1,049.91	1/4	688.86	1/4	327.65	1/4		1/4		1/4		1/4		1/4											
1/2	1,764.63	1/2	1,403.41	1/2	1,042.39	1/2	681.33	1/2	320.12	1/2		1/2		1/2		1/2		1/2											
3/4	1,757.11	3/4	1,395.88	3/4	1,034.88	3/4	673.81	3/4	312.59	3/4		3/4		3/4		3/4		3/4											
11	1,719.48	11	1,358.25	11	997.29	11	636.18	11	274.97	11		11		11		11		11											
1/4	1,711.96	1/4	1,350.73	1/4	989.78	1/4	628.66	1/4	267.44	1/4		1/4		1/4		1/4		1/4											
1/2	1,704.43	1/2	1,343.20	1/2	982.26	1/2	621.13	1/2	259.92	1/2		1/2		1/2		1/2		1/2											
3/4	1,696.90	3/4	1,335.68	3/4	974.75	3/4	613.61	3/4	252.39	3/4		3/4		3/4		3/4		3/4											

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/27/2020 CL
CALCULATED: 04/28/2020 CL
PRINTED: 04/28/2020 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "EMS 523"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1247

GAUGE HEIGHT 15'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0																			
1/4	4,377.37	1/4	4,217.29	1/4	4,057.21	1/4	3,897.13	1/4	3,737.05	1/4	3,576.97	1/4	3,416.89	1/4	3,256.81	1/4	3,096.73	1/4	2,936.65
1/2	4,375.73	1/2	4,213.68	1/2	4,053.60	1/2	4,032.49	1/2	3,872.41	1/2	3,712.33	1/2	3,552.25	1/2	3,392.17	1/2	3,232.09	1/2	3,071.91
3/4	4,374.09	3/4	4,210.06	3/4	4,049.98	3/4	4,028.87	3/4	3,868.79	3/4	3,708.71	3/4	3,548.63	3/4	3,388.55	3/4	3,228.47	3/4	3,068.39
1	4,372.46	1	4,208.45	1	4,048.37	1	4,027.26	1	3,867.18	1	3,707.10	1	3,547.02	1	3,386.94	1	3,226.86	1	3,066.78
1 1/4	4,370.82	1 1/4	4,206.84	1 1/4	4,046.76	1 1/4	4,025.65	1 1/4	3,865.57	1 1/4	3,705.49	1 1/4	3,545.41	1 1/4	3,385.33	1 1/4	3,225.25	1 1/4	3,065.17
1 1/2	4,369.21	1 1/2	4,205.21	1 1/2	4,045.15	1 1/2	4,024.04	1 1/2	3,864.04	1 1/2	3,703.96	1 1/2	3,543.88	1 1/2	3,383.80	1 1/2	3,223.72	1 1/2	3,063.64
3/4	4,367.96	3/4	4,203.96	3/4	4,043.96	3/4	4,022.85	3/4	3,862.77	3/4	3,702.69	3/4	3,542.61	3/4	3,382.53	3/4	3,222.44	3/4	3,062.52
2	4,366.23	2	4,202.23	2	4,042.23	2	4,021.12	2	3,861.69	2	3,701.61	2	3,541.53	2	3,381.45	2	3,221.37	2	3,061.44
1/4	4,359.37	1/4	4,195.37	1/4	4,188.33	1/4	4,010.00	1/4	3,824.29	1/4	3,632.12	1/4	3,440.04	1/4	3,247.97	1/4	3,055.90	1/4	2,863.83
1/2	4,355.60	1/2	4,191.60	1/2	4,184.56	1/2	4,006.20	1/2	3,820.34	1/2	3,628.09	1/2	3,435.94	1/2	3,243.87	1/2	3,051.80	1/2	2,859.73
3/4	4,351.82	3/4	4,187.82	3/4	4,181.05	3/4	4,002.40	3/4	3,816.39	3/4	3,624.07	3/4	3,432.01	3/4	3,239.94	3/4	3,047.87	3/4	2,855.80
3	4,348.05	3	4,177.42	3	4,173.78	3	3,998.80	3	3,812.44	3	3,620.04	3	3,427.64	3	3,235.24	3	3,042.84	3	2,850.77
1/4	4,344.27	1/4	4,173.78	1/4	4,170.13	1/4	3,994.80	1/4	3,808.49	1/4	3,616.01	1/4	3,423.61	1/4	3,231.21	1/4	3,038.81	1/4	2,846.74
1/2	4,340.81	1/2	4,170.13	1/2	4,166.47	1/2	3,990.99	1/2	3,804.53	1/2	3,611.98	1/2	3,419.58	1/2	3,227.18	1/2	3,035.41	1/2	2,843.34
3/4	4,337.34	3/4	4,166.47	3/4	4,162.82	3/4	3,987.17	3/4	3,800.57	3/4	3,607.95	3/4	3,415.55	3/4	3,223.15	3/4	3,031.41	3/4	2,839.91
4	4,333.88	4	4,162.82	4	4,159.17	4	3,983.36	4	3,796.61	4	3,603.93	4	3,411.33	4	3,218.73	4	3,026.81	4	2,836.41
1/4	4,330.41	1/4	4,159.17	1/4	4,155.51	1/4	3,979.54	1/4	3,792.65	1/4	3,599.90	1/4	3,407.30	1/4	3,214.70	1/4	3,022.10	1/4	2,832.91
1/2	4,326.94	1/2	4,155.51	1/2	4,151.85	1/2	3,975.72	1/2	3,788.67	1/2	3,595.87	1/2	3,403.27	1/2	3,210.67	1/2	3,018.07	1/2	2,829.51
3/4	4,323.46	3/4	4,151.85	3/4	4,148.18	3/4	3,971.89	3/4	3,784.70	3/4	3,591.84	3/4	3,399.24	3/4	3,206.64	3/4	3,014.04	3/4	2,826.04
5	4,319.98	5	4,148.18	5	4,144.52	5	3,968.07	5	3,780.72	5	3,587.82	5	3,395.22	5	3,202.62	5	3,010.02	5	2,822.42
1/4	4,316.51	1/4	4,144.52	1/4	4,140.84	1/4	3,964.04	1/4	3,776.75	1/4	3,583.79	1/4	3,391.19	1/4	3,198.59	1/4	2,995.99	1/4	2,818.89
1/2	4,313.02	1/2	4,140.84	1/2	4,137.17	1/2	3,960.40	1/2	3,772.76	1/2	3,579.76	1/2	3,387.16	1/2	3,194.56	1/2	2,991.96	1/2	2,815.36
3/4	4,309.53	3/4	4,137.17	3/4	4,133.49	3/4	3,956.76	3/4	3,768.78	3/4	3,575.73	3/4	3,383.13	3/4	3,190.53	3/4	2,987.93	3/4	2,811.93
6	4,306.04	6	4,133.49	6	4,129.82	6	3,952.73	6	3,764.81	6	3,571.70	6	3,379.10	6	3,186.50	6	2,993.90	6	2,808.30
1/4	4,302.55	1/4	4,129.82	1/4	4,126.13	1/4	3,948.89	1/4	3,760.81	1/4	3,567.68	1/4	3,375.08	1/4	3,182.48	1/4	2,989.88	1/4	2,805.28
1/2	4,299.05	1/2	4,126.13	1/2	4,122.44	1/2	3,945.04	1/2	3,756.81	1/2	3,563.65	1/2	3,370.05	1/2	3,177.45	1/2	2,985.85	1/2	2,801.25
3/4	4,295.55	3/4	4,122.44	3/4	4,118.75	3/4	3,941.19	3/4	3,752.81	3/4	3,559.59	3/4	3,366.99	3/4	3,174.39	3/4	2,982.25	3/4	2,798.65
7	4,292.05	7	4,118.75	7	4,115.06	7	3,937.49	7	3,744.81	7	3,551.57	7	3,358.97	7	3,166.37	7	2,978.77	7	2,795.17
1/4	4,288.54	1/4	4,115.06	1/4	4,111.34	1/4	3,933.49	1/4	3,740.80	1/4	3,547.54	1/4	3,354.94	1/4	3,162.34	1/4	2,975.14	1/4	2,791.54
1/2	4,285.03	1/2	4,111.34	1/2	4,107.63	1/2	3,929.62	1/2	3,736.79	1/2	3,543.51	1/2	3,350.91	1/2	3,158.31	1/2	2,971.54	1/2	2,787.94
3/4	4,281.52	3/4	4,107.63	3/4	4,103.91	3/4	3,925.76	3/4	3,732.78	3/4	3,539.48	3/4	3,346.88	3/4	3,154.28	3/4	2,967.94	3/4	2,784.34
8	4,278.00	8	4,103.91	8	4,100.20	8	3,921.90	8	3,728.77	8	3,535.45	8	3,342.85	8	3,149.25	8	2,964.34	8	2,780.74
1/4	4,274.49	1/4	4,100.20	1/4	4,096.47	1/4	3,918.03	1/4	3,724.75	1/4	3,531.43	1/4	3,338.83	1/4	3,145.23	1/4	2,960.74	1/4	2,777.14
1/2	4,270.96	1/2	4,096.47	1/2	4,092.74	1/2	3,914.16	1/2	3,720.72	1/2	3,527.40	1/2	3,334.80	1/2	3,141.20	1/2	2,957.14	1/2	2,773.54
3/4	4,267.43	3/4	4,092.74	3/4	4,088.02	3/4	3,910.28	3/4	3,716.70	3/4	3,523.37	3/4	3,331.20	3/4	3,137.60	3/4	2,953.54	3/4	2,769.94
9	4,263.90	9	4,088.02	9	4,084.29	9	3,906.41	9	3,712.68	9	3,519.34	9	3,327.60	9	3,134.00	9	2,949.94	9	2,766.34
1/4	4,260.36	1/4	4,084.29	1/4	4,080.56	1/4	3,902.53	1/4	3,708.65	1/4	3,515.31	1/4	3,323.59	1/4	3,130.00	1/4	2,946.40	1/4	2,762.80
1/2	4,256.79	1/2	4,080.56	1/2	4,076.83	1/2	3,898.65	1/2	3,704.63	1/2	3,511.29	1/2	3,319.59	1/2	3,126.00	1/2	2,942.80	1/2	2,759.20
3/4	4,253.21	3/4	4,076.83	3/4	4,073.10	3/4	3,894.76	3/4	3,700.59	3/4	3,507.26	3/4	3,315.59	3/4	3,122.00	3/4	2,939.20	3/4	2,755.60
10	4,249.63	10	4,073.10	10	4,069.37	10	3,890.87	10	3,696.57	10	3,503.23	10	3,311.23	10	3,117.64	10	2,935.60	10	2,752.00
1/4	4,246.06	1/4	4,069.37	1/4	4,065.64	1/4	3,886.98	1/4	3,692.54	1/4	3,499.77	1/4	3,307.17	1/4	3,113.58	1/4	2,932.00	1/4	2,748.40
1/2	4,242.47	1/2	4,065.64	1/2	4,061.91	1/2	3,883.08	1/2	3,688.54	1/2	3,495.73	1/2	3,303.37	1/2	3,109.78	1/2	2,928.40	1/2	2,744.80
3/4	4,238.88	3/4	4,061.91	3/4	4,058.18	3/4	3,879.18	3/4	3,684.64	3/4	3,491.91	3/4	3,300.57	3/4	3,106.98	3/4	2,924.80	3/4	2,741.20
11	4,235.29	11	4,058.18	11	4,054.45	11	3,875.28	11	3,680.45	11	3,487.86	11	3,295.96	11	3,101.97	11	2,921.20	11	2,737.60
1/4	4,231.70	1/4	4,054.45	1/4	4,050.72	1/4	3,871.38	1/4	3,676.43	1/4	3,483.94	1/4	3,292.04	1/4	3,098.05	1/4	2,917.60	1/4	2,734.00
1/2	4,228.10	1/2	4,050.72	1/2	4,046.99	1/2	3,867.47	1/2	3,672.40	1/2	3,479.94	1/2	3,288.04	1/2	3,093.15	1/2	2,914.00	1/2	2,730.40
3/4	4,224.50	3/4	4,046.99	3/4	4,043.26	3/4	3,863.56	3/4	3,668.43	3/4	3,475.94	3/4	3,284.04	3/4	3,089.15	3/4	2,909.60	3/4	2,726.80

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP UP OF 2" DIAMETER "HERMETIC" VALVE.
GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT

& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pma-inc.net>



BARGE "EMS 523"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

HULL # C-1247

GAUGE HEIGHT 15'-08 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,025.94	0	1,665.92	0	1,307.34	0	957.93	0	604.30	0	244.17	0		0		0		0	
1/4	2,018.44	1/4	1,658.42	1/4	1,299.90	1/4	950.76	1/4	596.79	1/4	236.66	1/4		1/4		1/4		1/4	
1/2	2,010.94	1/2	1,650.91	1/2	1,292.46	1/2	943.60	1/2	589.29	1/2	229.16	1/2		1/2		1/2		1/2	
3/4	2,003.44	3/4	1,643.41	3/4	1,285.02	3/4	936.43	3/4	581.79	3/4	221.66	3/4		3/4		3/4		3/4	
1	1,995.94	1	1,635.91	1	1,277.58	1	929.27	1	574.29	1	214.16	1		1		1		1	
1/4	1,988.44	1/4	1,628.41	1/4	1,270.15	1/4	922.10	1/4	566.78	1/4	206.65	1/4		1/4		1/4		1/4	
1/2	1,980.94	1/2	1,620.91	1/2	1,262.71	1/2	914.93	1/2	559.28	1/2	199.15	1/2		1/2		1/2		1/2	
3/4	1,973.44	3/4	1,613.41	3/4	1,255.27	3/4	907.76	3/4	551.78	3/4	191.65	3/4		3/4		3/4		3/4	
2	1,965.94	2	1,605.91	2	1,247.84	2	900.59	2	544.27	2	184.15	2		2		2		2	
1/4	1,958.44	1/4	1,598.41	1/4	1,240.40	1/4	893.42	1/4	536.77	1/4	176.64	1/4		1/4		1/4		1/4	
1/2	1,950.94	1/2	1,590.91	1/2	1,232.98	1/2	886.23	1/2	529.27	1/2	169.14	1/2		1/2		1/2		1/2	
3/4	1,943.44	3/4	1,583.41	3/4	1,225.56	3/4	879.04	3/4	521.77	3/4	161.64	3/4		3/4		3/4		3/4	
3	1,935.94	3	1,575.91	3	1,218.13	3	871.85	3	514.26	3	154.13	3		3		3		3	
1/4	1,928.44	1/4	1,568.41	1/4	1,210.71	1/4	864.66	1/4	506.76	1/4	146.63	1/4		1/4		1/4		1/4	
1/2	1,920.94	1/2	1,560.91	1/2	1,203.29	1/2	857.47	1/2	499.26	1/2	139.12	1/2		1/2		1/2		1/2	
3/4	1,913.44	3/4	1,553.41	3/4	1,195.87	3/4	850.27	3/4	491.76	3/4	131.61	3/4		3/4		3/4		3/4	
4	1,905.93	4	1,545.91	4	1,188.44	4	843.08	4	484.25	4	124.10	4		4		4		4	
1/4	1,898.43	1/4	1,538.41	1/4	1,181.02	1/4	835.89	1/4	476.75	1/4	116.60	1/4		1/4		1/4		1/4	
1/2	1,890.93	1/2	1,530.90	1/2	1,173.61	1/2	828.63	1/2	469.25	1/2	109.17	1/2		1/2		1/2		1/2	
3/4	1,883.43	3/4	1,523.40	3/4	1,166.19	3/4	821.38	3/4	461.74	3/4	101.75	3/4		3/4		3/4		3/4	
5	1,875.93	5	1,515.90	5	1,158.78	5	814.12	5	454.24	5	94.33	5		5		5		5	
1/4	1,868.43	1/4	1,508.40	1/4	1,151.36	1/4	806.87	1/4	446.74	1/4	86.90	1/4		1/4		1/4		1/4	
1/2	1,860.93	1/2	1,500.91	1/2	1,144.20	1/2	799.37	1/2	439.24	1/2	80.19	1/2		1/2		1/2		1/2	
3/4	1,853.43	3/4	1,493.42	3/4	1,137.04	3/4	791.86	3/4	431.73	3/4	73.48	3/4		3/4		3/4		3/4	
6	1,845.93	6	1,485.93	6	1,129.87	6	784.36	6	424.23	6	66.77	6		6		6		6	
1/4	1,838.43	1/4	1,478.43	1/4	1,122.71	1/4	776.86	1/4	416.73	1/4	60.06	1/4		1/4		1/4		1/4	
1/2	1,830.93	1/2	1,470.99	1/2	1,115.54	1/2	769.36	1/2	409.23	1/2	54.59	1/2		1/2		1/2		1/2	
3/4	1,823.43	3/4	1,463.55	3/4	1,108.38	3/4	761.85	3/4	401.72	3/4	49.12	3/4		3/4		3/4		3/4	
7	1,815.93	7	1,456.12	7	1,101.21	7	754.35	7	394.22	7	43.65	7		7		7		7	
1/4	1,808.43	1/4	1,448.68	1/4	1,094.05	1/4	746.85	1/4	386.72	1/4	38.18	1/4		1/4		1/4		1/4	
1/2	1,800.93	1/2	1,441.24	1/2	1,086.88	1/2	739.34	1/2	379.22	1/2	33.96	1/2		1/2		1/2		1/2	
3/4	1,793.43	3/4	1,433.80	3/4	1,079.72	3/4	731.84	3/4	371.71	3/4	29.73	3/4		3/4		3/4		3/4	
8	1,785.93	8	1,426.36	8	1,072.56	8	724.34	8	364.21	8	25.51	8		8		8		8	
1/4	1,778.42	1/4	1,418.92	1/4	1,065.39	1/4	716.84	1/4	356.71	1/4	21.28	1/4		1/4		1/4		1/4	
1/2	1,770.92	1/2	1,411.48	1/2	1,058.23	1/2	709.33	1/2	349.20	1/2		1/2		1/2		1/2		1/2	
3/4	1,763.42	3/4	1,404.04	3/4	1,051.06	3/4	701.83	3/4	341.70	3/4		3/4		3/4		3/4		3/4	
9	1,755.92	9	1,396.61	9	1,043.90	9	694.33	9	334.20	9		9		9		9		9	
1/4	1,748.42	1/4	1,389.17	1/4	1,036.73	1/4	686.83	1/4	326.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,740.92	1/2	1,381.73	1/2	1,029.57	1/2	679.32	1/2	319.19	1/2		1/2		1/2		1/2		1/2	
3/4	1,733.42	3/4	1,374.29	3/4	1,022.40	3/4	671.82	3/4	311.69	3/4		3/4		3/4		3/4		3/4	
10	1,725.92	10	1,366.85	10	1,015.24	10	664.32	10	304.19	10		10		10		10		10	
1/4	1,718.42	1/4	1,359.41	1/4	1,008.08	1/4	656.82	1/4	296.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,710.92	1/2	1,351.97	1/2	1,000.91	1/2	649.31	1/2	289.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,703.42	3/4	1,344.53	3/4	993.75	3/4	641.81	3/4	281.68	3/4		3/4		3/4		3/4		3/4	
11	1,695.92	11	1,337.10	11	986.58	11	634.31	11	274.18	11		11		11		11		11	
1/4	1,688.42	1/4	1,329.66	1/4	979.42	1/4	626.80	1/4	266.67	1/4		1/4		1/4		1/4		1/4	
1/2	1,680.92	1/2	1,322.22	1/2	972.25	1/2	619.30	1/2	259.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,673.42	3/4	1,314.78	3/4	965.09	3/4	611.80	3/4	251.67	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/27/2020 CL
CALCULATED: 04/28/2020 CL
PRINTED: 04/28/2020 CL
CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "EMS 523"

ULLAGE TRIM TABLE

HULL # 1247

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
1 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8
2 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4
2 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-1/4
3 PORT	00-1/2	- 00-1/2	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-3/4	- 02-3/4	03-1/2	- 03-1/2
3 STBD	00-5/8	- 00-5/8	01-1/8	- 01-1/8	01-3/4	- 01-3/4	02-1/4	- 02-1/4	02-7/8	- 02-7/8	03-1/2	- 03-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT	=	2'-00"
AFT DRAFT	=	4'-00"
DIFF.	=	2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"
FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 253'-00"

April 28, 2020

PRECISION MEASUREMENT

& ANALYSIS, INC.

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