



BARGE HFL-400

HULL NO 04-2206

ULLAGE TRIM CORRECTIONS

	1 ft		2 ft		3 ft		4 ft		5 ft		6 ft			
	Down by	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	
1 PORT	-00	00	-00	00	-00	00	-00	00	-00	00	-00	00	-00	00
1 STARBOARD	00	00	00	00	00	00	00	00	00	00	00	00	00	
2 PORT	-00	00	-00	00	-00	00	-00	00	-00- 1/8	00- 1/8	-00- 1/8	00- 1/8	-00- 1/8	00- 1/8
2 STARBOARD	-00	00	-00	00	-00	00	-00	00	-00- 1/8	00- 1/8	-00- 1/8	00- 1/8	-00- 1/8	00- 1/8
3 PORT	00	-00	00	-00	00	-00	00	-00	00	-00	00	-00	00	
3 STARBOARD	00	-00	00	-00	00	-00	00	-00	00	-00	00	-00	00	
SLOP PORT	-00- 1/8	00- 1/8	-00- 1/8	00- 1/8	-00- 2/8	00- 2/8	-00- 2/8	00- 2/8	-00- 3/8	00- 3/8	-00- 4/8	00- 4/8	-00- 4/8	00- 4/8
SLOP STARBOARD	-00- 1/8	00- 1/8	-00- 1/8	00- 1/8	-00- 2/8	00- 2/8	-00- 2/8	00- 2/8	-00- 3/8	00- 3/8	-00- 4/8	00- 4/8	-00- 4/8	00- 4/8

DUE TO COMPARTMENT GEOMETRY TRIM TABLE READINGS FOR 3 PORT & 3 STAR APPLY ONLY TO GAUGES BELOW compartment break line at 6'-11 1/2".

FOR INNAGE GAUGES REVERSE SIGN OF TRIM CORRECTION

EXAMPLE FOR USE OF TRIM CORRECTION:

FWD DRAFT = 1'-0"

AFT DRAFT = 6'-0"

DIFFERENCE = 5'-0" (DOWN BY STERN)

TRIM CORRECTION FOR 5'-0" DOWN BY STERN FOR 2 PORT IS 0'- 00-1/8 "

TO OBSERVED ULLAGE GAUGE OF 3'-0" THE TRIM CORRECTED ULLAGE IS 3' - 00-1/8 "

CHART IS CERTIFIED FOR THIS TANK ONLY.

COMPUTED BY: JF 04/25/05

STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endress

LENGTH BETWEEN DRAFT MARKS = 234'

BARGE HFL-400
HULL #04-2206

1 PORT
ULLAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL GAUGE HEIGHT 16'-11"

Table with columns for height (0 FT. to 9 FT.) and gauge height (IN: 0, 1/4, 1/2, 3/4). Rows represent 1-foot increments in height, with 16 sub-rows per foot. Gallon values are listed for each measurement.

GAUGE LOCATED 11'-1" OFF CENTERLINE BULKHEAD AND 38'-10" FORWARD OF AFT BULKHEAD

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endress

BARGE HFL-400 HULL #04-2206

1 PORT ULLAGE TABLE MANUAL GAUGING GALLONS

MANUAL GAUGE HEIGHT 16'-11"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0	88,250	0	75,210	0	62,170	0	49,132	0	36,095	0	23,055	0	10,335
1/4	87,978	1/4	74,938	1/4	61,899	1/4	48,861	1/4	35,823	1/4	22,784	1/4	10,088
1/2	87,706	1/2	74,667	1/2	61,627	1/2	48,589	1/2	35,551	1/2	22,512	1/2	9,842
3/4	87,435	3/4	74,395	3/4	61,355	3/4	48,318	3/4	35,280	3/4	22,241	3/4	9,597
1	87,163	1	74,123	1	61,084	1	48,046	1	35,008	1	21,969	1	9,352
1/4	86,891	1/4	73,852	1/4	60,812	1/4	47,774	1/4	34,736	1/4	21,697	1/4	9,109
1/2	86,620	1/2	73,580	1/2	60,540	1/2	47,503	1/2	34,465	1/2	21,426	1/2	8,867
3/4	86,348	3/4	73,308	3/4	60,269	3/4	47,231	3/4	34,193	3/4	21,154	3/4	8,625
2	86,076	2	73,037	2	59,997	2	46,960	2	33,921	2	20,882	2	8,385
1/4	85,805	1/4	72,765	1/4	59,725	1/4	46,688	1/4	33,650	1/4	20,611	1/4	8,145
1/2	85,533	1/2	72,493	1/2	59,454	1/2	46,416	1/2	33,378	1/2	20,339	1/2	7,906
3/4	85,261	3/4	72,222	3/4	59,182	3/4	46,145	3/4	33,107	3/4	20,067	3/4	7,668
3	84,990	3	71,950	3	58,910	3	45,873	3	32,835	3	19,796	3	7,431
1/4	84,718	1/4	71,678	1/4	58,639	1/4	45,602	1/4	32,563	1/4	19,524	1/4	7,195
1/2	84,446	1/2	71,407	1/2	58,367	1/2	45,330	1/2	32,292	1/2	19,252	1/2	6,960
3/4	84,175	3/4	71,135	3/4	58,095	3/4	45,058	3/4	32,020	3/4	18,981	3/4	6,725
4	83,903	4	70,863	4	57,824	4	44,787	4	31,748	4	18,709	4	6,492
1/4	83,631	1/4	70,592	1/4	57,552	1/4	44,515	1/4	31,477	1/4	18,437	1/4	6,259
1/2	83,360	1/2	70,320	1/2	57,280	1/2	44,244	1/2	31,205	1/2	18,166	1/2	6,027
3/4	83,088	3/4	70,048	3/4	57,009	3/4	43,972	3/4	30,933	3/4	17,894	3/4	5,796
5	82,816	5	69,777	5	56,737	5	43,700	5	30,662	5	17,623	5	5,566
1/4	82,545	1/4	69,505	1/4	56,465	1/4	43,429	1/4	30,390	1/4	17,351	1/4	5,337
1/2	82,273	1/2	69,233	1/2	56,194	1/2	43,157	1/2	30,118	1/2	17,081	1/2	5,109
3/4	82,001	3/4	68,962	3/4	55,922	3/4	42,886	3/4	29,847	3/4	16,810	3/4	4,882
6	81,730	6	68,690	6	55,651	6	42,614	6	29,575	6	16,540	6	4,656
1/4	81,458	1/4	68,418	1/4	55,379	1/4	42,342	1/4	29,303	1/4	16,271	1/4	4,431
1/2	81,187	1/2	68,147	1/2	55,108	1/2	42,071	1/2	29,032	1/2	16,003	1/2	4,206
3/4	80,915	3/4	67,875	3/4	54,836	3/4	41,799	3/4	28,760	3/4	15,735	3/4	3,983
7	80,643	7	67,604	7	54,564	7	41,528	7	28,488	7	15,469	7	3,761
1/4	80,372	1/4	67,332	1/4	54,293	1/4	41,256	1/4	28,217	1/4	15,203	1/4	3,539
1/2	80,100	1/2	67,060	1/2	54,021	1/2	40,984	1/2	27,945	1/2	14,939	1/2	3,319
3/4	79,828	3/4	66,789	3/4	53,750	3/4	40,713	3/4	27,674	3/4	14,675	3/4	3,100
8	79,557	8	66,517	8	53,478	8	40,441	8	27,402	8	14,412	8	2,882
1/4	79,285	1/4	66,245	1/4	53,206	1/4	40,169	1/4	27,130	1/4	14,150	1/4	2,665
1/2	79,013	1/2	65,974	1/2	52,935	1/2	39,898	1/2	26,859	1/2	13,889	1/2	2,449
3/4	78,742	3/4	65,702	3/4	52,663	3/4	39,626	3/4	26,587	3/4	13,629	3/4	2,234
9	78,470	9	65,430	9	52,392	9	39,354	9	26,315	9	13,370	9	2,020
1/4	78,198	1/4	65,159	1/4	52,120	1/4	39,083	1/4	26,044	1/4	13,112	1/4	1,808
1/2	77,927	1/2	64,887	1/2	51,848	1/2	38,811	1/2	25,772	1/2	12,855	1/2	1,598
3/4	77,655	3/4	64,615	3/4	51,577	3/4	38,540	3/4	25,500	3/4	12,599	3/4	1,395
10	77,383	10	64,344	10	51,305	10	38,268	10	25,229	10	12,343	10	1,204
1/4	77,112	1/4	64,072	1/4	51,034	1/4	37,996	1/4	24,957	1/4	12,089	1/4	1,028
1/2	76,840	1/2	63,800	1/2	50,762	1/2	37,725	1/2	24,685	1/2	11,836	1/2	866
3/4	76,568	3/4	63,529	3/4	50,490	3/4	37,453	3/4	24,414	3/4	11,583	3/4	719
11	76,297	11	63,257	11	50,219	11	37,181	11	24,142	11	11,331	11	586
1/4	76,025	1/4	62,985	1/4	49,947	1/4	36,910	1/4	23,870	1/4	11,081		
1/2	75,753	1/2	62,714	1/2	49,676	1/2	36,638	1/2	23,599	1/2	10,831		
3/4	75,482	3/4	62,442	3/4	49,404	3/4	36,366	3/4	23,327	3/4	10,582		

GAUGE LOCATED 11'-1" OFF CENTERLINE BULKHEAD AND 38'-10" FORWARD OF AFT BULKHEAD.

L.BDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endres

SAYBOLT LP

U. S. Headquarters
400 Swenson Drive
Kenilworth, NJ 07033

BARGE HFL-400

HULL #04-2206

1 STARBOARD

ULLAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0	88,675	0	75,637	0	62,600	0	49,564	0	36,529	0	23,492	0	10,735
1/4	88,403	1/4	75,366	1/4	62,328	1/4	49,293	1/4	36,257	1/4	23,220	1/4	10,486
1/2	88,131	1/2	75,094	1/2	62,057	1/2	49,021	1/2	35,986	1/2	22,948	1/2	10,239
3/4	87,860	3/4	74,822	3/4	61,785	3/4	48,749	3/4	35,714	3/4	22,677	3/4	9,992
1	87,588	1	74,551	1	61,514	1	48,478	1	35,442	1	22,405	1	9,747
1/4	87,317	1/4	74,279	1/4	61,242	1/4	48,206	1/4	35,171	1/4	22,133	1/4	9,502
1/2	87,045	1/2	74,008	1/2	60,970	1/2	47,935	1/2	34,899	1/2	21,862	1/2	9,258
3/4	86,773	3/4	73,736	3/4	60,699	3/4	47,663	3/4	34,628	3/4	21,590	3/4	9,015
2	86,502	2	73,464	2	60,427	2	47,392	2	34,356	2	21,319	2	8,774
1/4	86,230	1/4	73,193	1/4	60,156	1/4	47,120	1/4	34,084	1/4	21,047	1/4	8,532
1/2	85,958	1/2	72,921	1/2	59,884	1/2	46,849	1/2	33,813	1/2	20,775	1/2	8,292
3/4	85,687	3/4	72,650	3/4	59,612	3/4	46,577	3/4	33,541	3/4	20,504	3/4	8,053
3	85,415	3	72,378	3	59,341	3	46,305	3	33,270	3	20,232	3	7,814
1/4	85,144	1/4	72,106	1/4	59,069	1/4	46,034	1/4	32,998	1/4	19,961	1/4	7,577
1/2	84,872	1/2	71,835	1/2	58,797	1/2	45,762	1/2	32,726	1/2	19,689	1/2	7,340
3/4	84,600	3/4	71,563	3/4	58,526	3/4	45,491	3/4	32,455	3/4	19,417	3/4	7,104
4	84,329	4	71,292	4	58,254	4	45,219	4	32,183	4	19,146	4	6,869
1/4	84,057	1/4	71,020	1/4	57,983	1/4	44,948	1/4	31,911	1/4	18,874	1/4	6,635
1/2	83,786	1/2	70,748	1/2	57,711	1/2	44,676	1/2	31,640	1/2	18,603	1/2	6,402
3/4	83,514	3/4	70,477	3/4	57,439	3/4	44,405	3/4	31,368	3/4	18,331	3/4	6,170
5	83,242	5	70,205	5	57,168	5	44,133	5	31,097	5	18,059	5	5,938
1/4	82,971	1/4	69,933	1/4	56,896	1/4	43,862	1/4	30,825	1/4	17,788	1/4	5,708
1/2	82,699	1/2	69,662	1/2	56,625	1/2	43,590	1/2	30,553	1/2	17,517	1/2	5,478
3/4	82,428	3/4	69,390	3/4	56,353	3/4	43,318	3/4	30,282	3/4	17,246	3/4	5,250
6	82,156	6	69,119	6	56,081	6	43,047	6	30,010	6	16,975	6	5,022
1/4	81,884	1/4	68,847	1/4	55,810	1/4	42,775	1/4	29,739	1/4	16,705	1/4	4,795
1/2	81,613	1/2	68,575	1/2	55,538	1/2	42,504	1/2	29,467	1/2	16,435	1/2	4,569
3/4	81,341	3/4	68,304	3/4	55,267	3/4	42,232	3/4	29,195	3/4	16,166	3/4	4,345
7	81,069	7	68,032	7	54,995	7	41,961	7	28,924	7	15,898	7	4,121
1/4	80,798	1/4	67,761	1/4	54,724	1/4	41,689	1/4	28,652	1/4	15,631	1/4	3,898
1/2	80,526	1/2	67,489	1/2	54,452	1/2	41,418	1/2	28,381	1/2	15,365	1/2	3,676
3/4	80,255	3/4	67,217	3/4	54,180	3/4	41,146	3/4	28,109	3/4	15,100	3/4	3,455
8	79,983	8	66,946	8	53,909	8	40,874	8	27,837	8	14,836	8	3,235
1/4	79,711	1/4	66,674	1/4	53,637	1/4	40,603	1/4	27,566	1/4	14,572	1/4	3,016
1/2	79,440	1/2	66,403	1/2	53,366	1/2	40,331	1/2	27,294	1/2	14,310	1/2	2,799
3/4	79,168	3/4	66,131	3/4	53,094	3/4	40,060	3/4	27,022	3/4	14,049	3/4	2,582
9	78,897	9	65,859	9	52,823	9	39,788	9	26,751	9	13,788	9	2,367
1/4	78,625	1/4	65,588	1/4	52,551	1/4	39,516	1/4	26,479	1/4	13,528	1/4	2,152
1/2	78,353	1/2	65,316	1/2	52,280	1/2	39,245	1/2	26,208	1/2	13,270	1/2	1,939
3/4	78,082	3/4	65,044	3/4	52,008	3/4	38,973	3/4	25,936	3/4	13,012	3/4	1,728
10	77,810	10	64,773	10	51,736	10	38,702	10	25,664	10	12,755	10	1,521
1/4	77,539	1/4	64,501	1/4	51,465	1/4	38,430	1/4	25,393	1/4	12,499	1/4	1,323
1/2	77,267	1/2	64,230	1/2	51,193	1/2	38,158	1/2	25,121	1/2	12,245	1/2	1,137
3/4	76,995	3/4	63,958	3/4	50,922	3/4	37,887	3/4	24,850	3/4	11,991	3/4	966
11	76,724	11	63,686	11	50,650	11	37,615	11	24,578	11	11,737	11	810
1/4	76,452	1/4	63,415	1/4	50,379	1/4	37,344	1/4	24,306	1/4	11,485	1/4	668
1/2	76,180	1/2	63,143	1/2	50,107	1/2	37,072	1/2	24,035	1/2	11,234	3/8	601
3/4	75,909	3/4	62,872	3/4	49,836	3/4	36,800	3/4	23,763	3/4	10,984		

GAUGE LOCATED 11'-4" OFF CENTERLINE BULKHEAD AND 38'-10" FORWARD OF AFT BULKHEAD

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
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SAYBOLT LP

O. Endreaw

BARGE HFL-400
HULL #04-2206

2 PORT
ULLAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL GAUGE HEIGHT 16'-10 7/8"

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	0	210,749	0	195,628	0	180,506	0	165,385	0	150,263	0	135,142	0	120,020	
1/4	1/4	1/4	1/4	1/4	1/4	210,434	1/4	195,313	1/4	180,191	1/4	165,070	1/4	149,948	1/4	134,827	1/4	119,705	
1/2	1/2	1/2	1/2	1/2	1/2	210,119	1/2	194,998	1/2	179,876	1/2	164,755	1/2	149,633	1/2	134,512	1/2	119,390	
3/4	3/4	3/4	3/4	3/4	3/4	209,804	3/4	194,683	3/4	179,561	3/4	164,440	3/4	149,318	3/4	134,197	3/4	119,075	
1	1	1	1	1	1	209,489	1	194,368	1	179,246	1	164,125	1	149,003	1	133,882	1	118,760	
1/4	1/4	1/4	1/4	1/4	1/4	209,174	1/4	194,053	1/4	178,931	1/4	163,810	1/4	148,688	1/4	133,567	1/4	118,445	
1/2	1/2	1/2	1/2	1/2	1/2	208,859	1/2	193,738	1/2	178,616	1/2	163,495	1/2	148,373	1/2	133,252	1/2	118,130	
3/4	3/4	3/4	7/8	3/4	222,632	208,544	3/4	193,422	3/4	178,301	3/4	163,180	3/4	148,058	3/4	132,937	3/4	117,815	
2	2	2	2	2	222,555	208,229	2	193,107	2	177,986	2	162,865	2	147,743	2	132,622	2	117,500	
1/4	1/4	1/4	1/4	1/4	222,394	207,914	1/4	192,792	1/4	177,671	1/4	162,550	1/4	147,428	1/4	132,307	1/4	117,185	
1/2	1/2	1/2	1/2	1/2	222,216	207,599	1/2	192,477	1/2	177,356	1/2	162,235	1/2	147,113	1/2	131,992	1/2	116,870	
3/4	3/4	3/4	3/4	3/4	222,020	207,284	3/4	192,162	3/4	177,041	3/4	161,919	3/4	146,798	3/4	131,677	3/4	116,555	
3	3	3	3	3	221,806	206,969	3	191,847	3	176,726	3	161,604	3	146,483	3	131,362	3	116,240	
1/4	1/4	1/4	1/4	1/4	221,575	206,654	1/4	191,532	1/4	176,411	1/4	161,289	1/4	146,168	1/4	131,047	1/4	115,925	
1/2	1/2	1/2	1/2	1/2	221,327	206,339	1/2	191,217	1/2	176,096	1/2	160,974	1/2	145,853	1/2	130,732	1/2	115,610	
3/4	3/4	3/4	3/4	3/4	221,061	206,024	3/4	190,902	3/4	175,781	3/4	160,659	3/4	145,538	3/4	130,416	3/4	115,295	
4	4	4	4	4	220,777	205,709	4	190,587	4	175,466	4	160,344	4	145,223	4	130,101	4	114,980	
1/4	1/4	1/4	1/4	1/4	220,479	205,394	1/4	190,272	1/4	175,151	1/4	160,029	1/4	144,908	1/4	129,786	1/4	114,665	
1/2	1/2	1/2	1/2	1/2	220,171	205,079	1/2	189,957	1/2	174,836	1/2	159,714	1/2	144,593	1/2	129,471	1/2	114,350	
3/4	3/4	3/4	3/4	3/4	219,861	204,764	3/4	189,642	3/4	174,521	3/4	159,399	3/4	144,278	3/4	129,156	3/4	114,035	
5	5	5	5	5	219,550	204,449	5	189,327	5	174,206	5	159,084	5	143,963	5	128,841	5	113,720	
1/4	1/4	1/4	1/4	1/4	219,238	204,134	1/4	189,012	1/4	173,891	1/4	158,769	1/4	143,648	1/4	128,526	1/4	113,405	
1/2	1/2	1/2	1/2	1/2	218,926	203,818	1/2	188,697	1/2	173,576	1/2	158,454	1/2	143,333	1/2	128,211	1/2	113,090	
3/4	3/4	3/4	3/4	3/4	218,613	203,503	3/4	188,382	3/4	173,261	3/4	158,139	3/4	143,018	3/4	127,896	3/4	112,775	
6	6	6	6	6	218,301	203,188	6	188,067	6	172,946	6	157,824	6	142,703	6	127,581	6	112,460	
1/4	1/4	1/4	1/4	1/4	217,988	202,873	1/4	187,752	1/4	172,631	1/4	157,509	1/4	142,388	1/4	127,266	1/4	112,145	
1/2	1/2	1/2	1/2	1/2	217,674	202,558	1/2	187,437	1/2	172,315	1/2	157,194	1/2	142,073	1/2	126,951	1/2	111,830	
3/4	3/4	3/4	3/4	3/4	217,361	202,243	3/4	187,122	3/4	172,000	3/4	156,879	3/4	141,758	3/4	126,636	3/4	111,515	
7	7	7	7	7	217,047	201,928	7	186,807	7	171,685	7	156,564	7	141,443	7	126,321	7	111,200	
1/4	1/4	1/4	1/4	1/4	216,733	201,613	1/4	186,492	1/4	171,370	1/4	156,249	1/4	141,128	1/4	126,006	1/4	110,885	
1/2	1/2	1/2	1/2	1/2	216,419	201,298	1/2	186,177	1/2	171,055	1/2	155,934	1/2	140,812	1/2	125,691	1/2	110,570	
3/4	3/4	3/4	3/4	3/4	216,104	200,983	3/4	185,862	3/4	170,740	3/4	155,619	3/4	140,497	3/4	125,376	3/4	110,255	
8	8	8	8	8	215,790	200,668	8	185,547	8	170,425	8	155,304	8	140,182	8	125,061	8	109,940	
1/4	1/4	1/4	1/4	1/4	215,475	200,353	1/4	185,232	1/4	170,110	1/4	154,989	1/4	139,867	1/4	124,746	1/4	109,625	
1/2	1/2	1/2	1/2	1/2	215,160	200,038	1/2	184,917	1/2	169,795	1/2	154,674	1/2	139,552	1/2	124,431	1/2	109,309	
3/4	3/4	3/4	3/4	3/4	214,846	199,723	3/4	184,602	3/4	169,480	3/4	154,359	3/4	139,237	3/4	124,116	3/4	108,994	
9	9	9	9	9	214,531	199,408	9	184,287	9	169,165	9	154,044	9	138,922	9	123,801	9	108,679	
1/4	1/4	1/4	1/4	1/4	214,216	199,093	1/4	183,972	1/4	168,850	1/4	153,729	1/4	138,607	1/4	123,486	1/4	108,364	
1/2	1/2	1/2	1/2	1/2	213,901	198,778	1/2	183,657	1/2	168,535	1/2	153,414	1/2	138,292	1/2	123,171	1/2	108,049	
3/4	3/4	3/4	3/4	3/4	213,586	198,463	3/4	183,342	3/4	168,220	3/4	153,099	3/4	137,977	3/4	122,856	3/4	107,734	
10	10	10	10	10	213,271	198,148	10	183,026	10	167,905	10	152,784	10	137,662	10	122,541	10	107,419	
1/4	1/4	1/4	1/4	1/4	212,955	197,833	1/4	182,711	1/4	167,590	1/4	152,469	1/4	137,347	1/4	122,226	1/4	107,104	
1/2	1/2	1/2	1/2	1/2	212,639	197,518	1/2	182,396	1/2	167,275	1/2	152,154	1/2	137,032	1/2	121,911	1/2	106,789	
3/4	3/4	3/4	3/4	3/4	212,324	197,203	3/4	182,081	3/4	166,960	3/4	151,839	3/4	136,717	3/4	121,596	3/4	106,474	
11	11	11	11	11	212,009	196,888	11	181,766	11	166,645	11	151,523	11	136,402	11	121,281	11	106,159	
1/4	1/4	1/4	1/4	1/4	211,694	196,573	1/4	181,451	1/4	166,330	1/4	151,208	1/4	136,087	1/4	120,966	1/4	105,844	
1/2	1/2	1/2	1/2	1/2	211,379	196,258	1/2	181,136	1/2	166,015	1/2	150,893	1/2	135,772	1/2	120,651	1/2	105,529	
3/4	3/4	3/4	3/4	3/4	211,064	195,943	3/4	180,821	3/4	165,700	3/4	150,578	3/4	135,457	3/4	120,336	3/4	105,214	

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-1" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endress

SAYBOLT LP

U. S. Headquarters
400 Swenson Drive
Kenilworth, NJ 07033

BARGE HFL-400

HULL #04-2206

2 PORT

ULLAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL GAUGE HEIGHT 16'-10 7/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0	104,899	0	89,778	0	74,656	0	59,536	0	44,417	0	29,295	0	14,174
1/4	104,584	1/4	89,463	1/4	74,341	1/4	59,221	1/4	44,102	1/4	28,980	1/4	13,859
1/2	104,269	1/2	89,148	1/2	74,026	1/2	58,906	1/2	43,787	1/2	28,665	1/2	13,544
3/4	103,954	3/4	88,833	3/4	73,711	3/4	58,591	3/4	43,472	3/4	28,350	3/4	13,229
1	103,639	1	88,517	1	73,396	1	58,276	1	43,157	1	28,035	1	12,914
1/4	103,324	1/4	88,202	1/4	73,081	1/4	57,961	1/4	42,842	1/4	27,720	1/4	12,599
1/2	103,009	1/2	87,887	1/2	72,766	1/2	57,646	1/2	42,526	1/2	27,405	1/2	12,284
3/4	102,694	3/4	87,572	3/4	72,451	3/4	57,331	3/4	42,211	3/4	27,090	3/4	11,969
2	102,379	2	87,257	2	72,136	2	57,016	2	41,896	2	26,775	2	11,654
1/4	102,064	1/4	86,942	1/4	71,821	1/4	56,701	1/4	41,581	1/4	26,460	1/4	11,339
1/2	101,749	1/2	86,627	1/2	71,506	1/2	56,386	1/2	41,266	1/2	26,145	1/2	11,023
3/4	101,434	3/4	86,312	3/4	71,191	3/4	56,071	3/4	40,951	3/4	25,830	3/4	10,708
3	101,119	3	85,997	3	70,876	3	55,756	3	40,636	3	25,515	3	10,393
1/4	100,804	1/4	85,682	1/4	70,561	1/4	55,442	1/4	40,321	1/4	25,200	1/4	10,078
1/2	100,489	1/2	85,367	1/2	70,246	1/2	55,127	1/2	40,006	1/2	24,885	1/2	9,764
3/4	100,174	3/4	85,052	3/4	69,931	3/4	54,812	3/4	39,691	3/4	24,570	3/4	9,449
4	99,859	4	84,737	4	69,616	4	54,497	4	39,376	4	24,255	4	9,134
1/4	99,544	1/4	84,422	1/4	69,301	1/4	54,182	1/4	39,061	1/4	23,940	1/4	8,819
1/2	99,229	1/2	84,107	1/2	68,986	1/2	53,867	1/2	38,746	1/2	23,625	1/2	8,504
3/4	98,913	3/4	83,792	3/4	68,671	3/4	53,552	3/4	38,431	3/4	23,310	3/4	8,190
5	98,598	5	83,477	5	68,356	5	53,237	5	38,116	5	22,995	5	7,875
1/4	98,283	1/4	83,162	1/4	68,041	1/4	52,922	1/4	37,801	1/4	22,680	1/4	7,561
1/2	97,968	1/2	82,847	1/2	67,725	1/2	52,607	1/2	37,486	1/2	22,365	1/2	7,247
3/4	97,653	3/4	82,532	3/4	67,410	3/4	52,292	3/4	37,171	3/4	22,050	3/4	6,933
6	97,338	6	82,217	6	67,095	6	51,977	6	36,856	6	21,735	6	6,619
1/4	97,023	1/4	81,902	1/4	66,780	1/4	51,662	1/4	36,541	1/4	21,419	1/4	6,305
1/2	96,708	1/2	81,587	1/2	66,465	1/2	51,347	1/2	36,226	1/2	21,104	1/2	5,991
3/4	96,393	3/4	81,272	3/4	66,150	3/4	51,032	3/4	35,911	3/4	20,789	3/4	5,678
7	96,078	7	80,957	7	65,836	7	50,717	7	35,596	7	20,474	7	5,365
1/4	95,763	1/4	80,642	1/4	65,521	1/4	50,402	1/4	35,281	1/4	20,159	1/4	5,052
1/2	95,448	1/2	80,327	1/2	65,206	1/2	50,087	1/2	34,966	1/2	19,844	1/2	4,740
3/4	95,133	3/4	80,012	3/4	64,891	3/4	49,772	3/4	34,651	3/4	19,529	3/4	4,427
8	94,818	8	79,697	8	64,576	8	49,457	8	34,336	8	19,214	8	4,116
1/4	94,503	1/4	79,382	1/4	64,261	1/4	49,142	1/4	34,021	1/4	18,899	1/4	3,804
1/2	94,188	1/2	79,067	1/2	63,946	1/2	48,827	1/2	33,706	1/2	18,584	1/2	3,493
3/4	93,873	3/4	78,752	3/4	63,631	3/4	48,512	3/4	33,391	3/4	18,269	3/4	3,183
9	93,558	9	78,437	9	63,316	9	48,197	9	33,076	9	17,954	9	2,873
1/4	93,243	1/4	78,122	1/4	63,001	1/4	47,882	1/4	32,761	1/4	17,639	1/4	2,565
1/2	92,928	1/2	77,806	1/2	62,686	1/2	47,567	1/2	32,446	1/2	17,324	1/2	2,264
3/4	92,613	3/4	77,491	3/4	62,371	3/4	47,252	3/4	32,131	3/4	17,009	3/4	1,978
10	92,298	10	77,176	10	62,056	10	46,937	10	31,815	10	16,694	10	1,711
1/4	91,983	1/4	76,861	1/4	61,741	1/4	46,622	1/4	31,500	1/4	16,379	1/4	1,464
1/2	91,668	1/2	76,546	1/2	61,426	1/2	46,307	1/2	31,185	1/2	16,064	1/2	1,236
3/4	91,353	3/4	76,231	3/4	61,111	3/4	45,992	3/4	30,870	3/4	15,749	3/4	1,028
11	91,038	11	75,916	11	60,796	11	45,677	11	30,555	11	15,434	7/8	929
1/4	90,723	1/4	75,601	1/4	60,481	1/4	45,362	1/4	30,240	1/4	15,119		
1/2	90,408	1/2	75,286	1/2	60,166	1/2	45,047	1/2	29,925	1/2	14,804		
3/4	90,093	3/4	74,971	3/4	59,851	3/4	44,732	3/4	29,610	3/4	14,489		

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-1" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endres

BARGE HFL-400

HULL #04-2206

2 STARBOARD

ULLAGE TABLE

MANUAL GAUGING

GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0		0		0		0		0		0		0		0	
							212,092				196,918				181,744				166,571
1/4	1/4	1/4	1/4	1/4	1/4	1/4	211,776	1/4	1/4	1/4	196,602	1/4	1/4	1/4	181,428	1/4	1/4	1/4	166,255
1/2	1/2	1/2	1/2	1/2	1/2	1/2	211,460	1/2	1/2	1/2	196,286	1/2	1/2	1/2	181,112	1/2	1/2	1/2	165,938
3/4	3/4	3/4	3/4	3/4	3/4	3/4	211,144	3/4	3/4	3/4	195,970	3/4	3/4	3/4	180,796	3/4	3/4	3/4	165,622
1	1	1	1	1	1	1	210,827	1	1	1	195,654	1	1	1	180,480	1	1	1	165,306
1/4	1/4	1/4	1/4	1/4	1/4	1/4	210,511	1/4	1/4	1/4	195,338	1/4	1/4	1/4	180,164	1/4	1/4	1/4	164,990
1/2	1/2	1/2	1/2	1/2	1/2	1/2	210,195	1/2	1/2	1/2	195,021	1/2	1/2	1/2	179,848	1/2	1/2	1/2	164,674
3/4	3/4	3/4	3/4	3/4	3/4	3/4	209,879	3/4	3/4	3/4	194,705	3/4	3/4	3/4	179,532	3/4	3/4	3/4	164,358
2	2	2	2	2	2	2	224,312	2	2	2	209,879	2	2	2	194,705	2	2	2	179,532
1/4	1/4	1/4	1/4	1/4	1/4	1/4	224,219	1/4	1/4	1/4	209,563	1/4	1/4	1/4	194,389	1/4	1/4	1/4	179,215
1/2	1/2	1/2	1/2	1/2	1/2	1/2	224,024	1/2	1/2	1/2	209,247	1/2	1/2	1/2	194,073	1/2	1/2	1/2	178,899
3/4	3/4	3/4	3/4	3/4	3/4	3/4	223,811	3/4	3/4	3/4	208,931	3/4	3/4	3/4	193,757	3/4	3/4	3/4	178,583
1	1	1	1	1	1	1	223,581	1	1	1	208,615	1	1	1	193,441	1	1	1	178,267
1/4	1/4	1/4	1/4	1/4	1/4	1/4	223,334	1/4	1/4	1/4	208,299	1/4	1/4	1/4	193,125	1/4	1/4	1/4	177,951
1/2	1/2	1/2	1/2	1/2	1/2	1/2	223,068	1/2	1/2	1/2	207,982	1/2	1/2	1/2	192,809	1/2	1/2	1/2	177,635
3/4	3/4	3/4	3/4	3/4	3/4	3/4	222,786	3/4	3/4	3/4	207,666	3/4	3/4	3/4	192,493	3/4	3/4	3/4	177,319
2	2	2	2	2	2	2	222,487	2	2	2	207,350	2	2	2	192,176	2	2	2	177,003
1/4	1/4	1/4	1/4	1/4	1/4	1/4	222,179	1/4	1/4	1/4	207,034	1/4	1/4	1/4	191,860	1/4	1/4	1/4	176,687
1/2	1/2	1/2	1/2	1/2	1/2	1/2	221,868	1/2	1/2	1/2	206,718	1/2	1/2	1/2	191,544	1/2	1/2	1/2	176,370
3/4	3/4	3/4	3/4	3/4	3/4	3/4	221,555	3/4	3/4	3/4	206,402	3/4	3/4	3/4	191,228	3/4	3/4	3/4	176,054
3	3	3	3	3	3	3	221,243	3	3	3	206,086	3	3	3	190,912	3	3	3	175,738
1/4	1/4	1/4	1/4	1/4	1/4	1/4	220,930	1/4	1/4	1/4	205,770	1/4	1/4	1/4	190,596	1/4	1/4	1/4	175,422
1/2	1/2	1/2	1/2	1/2	1/2	1/2	220,616	1/2	1/2	1/2	205,453	1/2	1/2	1/2	190,280	1/2	1/2	1/2	175,106
3/4	3/4	3/4	3/4	3/4	3/4	3/4	220,302	3/4	3/4	3/4	205,137	3/4	3/4	3/4	189,964	3/4	3/4	3/4	174,790
4	4	4	4	4	4	4	219,988	4	4	4	204,821	4	4	4	189,647	4	4	4	174,474
1/4	1/4	1/4	1/4	1/4	1/4	1/4	219,673	1/4	1/4	1/4	204,505	1/4	1/4	1/4	189,331	1/4	1/4	1/4	174,158
1/2	1/2	1/2	1/2	1/2	1/2	1/2	219,359	1/2	1/2	1/2	204,189	1/2	1/2	1/2	189,015	1/2	1/2	1/2	173,841
3/4	3/4	3/4	3/4	3/4	3/4	3/4	219,044	3/4	3/4	3/4	203,873	3/4	3/4	3/4	188,699	3/4	3/4	3/4	173,525
5	5	5	5	5	5	5	218,729	5	5	5	203,557	5	5	5	188,383	5	5	5	173,209
1/4	1/4	1/4	1/4	1/4	1/4	1/4	218,413	1/4	1/4	1/4	203,241	1/4	1/4	1/4	188,067	1/4	1/4	1/4	172,893
1/2	1/2	1/2	1/2	1/2	1/2	1/2	218,098	1/2	1/2	1/2	202,924	1/2	1/2	1/2	187,751	1/2	1/2	1/2	172,577
3/4	3/4	3/4	3/4	3/4	3/4	3/4	217,783	3/4	3/4	3/4	202,608	3/4	3/4	3/4	187,435	3/4	3/4	3/4	172,261
6	6	6	6	6	6	6	217,467	6	6	6	202,292	6	6	6	187,118	6	6	6	171,945
1/4	1/4	1/4	1/4	1/4	1/4	1/4	217,151	1/4	1/4	1/4	201,976	1/4	1/4	1/4	186,802	1/4	1/4	1/4	171,629
1/2	1/2	1/2	1/2	1/2	1/2	1/2	216,835	1/2	1/2	1/2	201,660	1/2	1/2	1/2	186,486	1/2	1/2	1/2	171,312
3/4	3/4	3/4	3/4	3/4	3/4	3/4	216,519	3/4	3/4	3/4	201,344	3/4	3/4	3/4	186,170	3/4	3/4	3/4	170,996
7	7	7	7	7	7	7	216,203	7	7	7	201,028	7	7	7	185,854	7	7	7	170,680
1/4	1/4	1/4	1/4	1/4	1/4	1/4	215,887	1/4	1/4	1/4	200,712	1/4	1/4	1/4	185,538	1/4	1/4	1/4	170,364
1/2	1/2	1/2	1/2	1/2	1/2	1/2	215,571	1/2	1/2	1/2	200,396	1/2	1/2	1/2	185,222	1/2	1/2	1/2	170,048
3/4	3/4	3/4	3/4	3/4	3/4	3/4	215,255	3/4	3/4	3/4	200,079	3/4	3/4	3/4	184,906	3/4	3/4	3/4	169,732
8	8	8	8	8	8	8	214,937	8	8	8	199,763	8	8	8	184,590	8	8	8	169,416
1/4	1/4	1/4	1/4	1/4	1/4	1/4	214,621	1/4	1/4	1/4	199,447	1/4	1/4	1/4	184,273	1/4	1/4	1/4	169,100
1/2	1/2	1/2	1/2	1/2	1/2	1/2	214,305	1/2	1/2	1/2	199,131	1/2	1/2	1/2	183,957	1/2	1/2	1/2	168,784
3/4	3/4	3/4	3/4	3/4	3/4	3/4	213,989	3/4	3/4	3/4	198,815	3/4	3/4	3/4	183,641	3/4	3/4	3/4	168,467
9	9	9	9	9	9	9	213,673	9	9	9	198,499	9	9	9	183,325	9	9	9	168,151
1/4	1/4	1/4	1/4	1/4	1/4	1/4	213,356	1/4	1/4	1/4	198,183	1/4	1/4	1/4	183,009	1/4	1/4	1/4	167,835
1/2	1/2	1/2	1/2	1/2	1/2	1/2	213,040	1/2	1/2	1/2	197,867	1/2	1/2	1/2	182,693	1/2	1/2	1/2	167,519
3/4	3/4	3/4	3/4	3/4	3/4	3/4	212,724	3/4	3/4	3/4	197,550	3/4	3/4	3/4	182,377	3/4	3/4	3/4	167,203
10	10	10	10	10	10	10	212,408	10	10	10	197,234	10	10	10	182,061	10	10	10	166,887

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-11" FORWARD OF AFT BULKHEAD

L.B.D.M.: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endres

BARGE HFL-400
HULL #04-2206

2 STARBOARD
ULLAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0	105,876	0	90,702	0	75,528	0	60,356	0	45,184	0	30,010	0	14,836
1/4	105,560	1/4	90,386	1/4	75,212	1/4	60,040	1/4	44,868	1/4	29,694	1/4	14,520
1/2	105,243	1/2	90,070	1/2	74,896	1/2	59,723	1/2	44,552	1/2	29,378	1/2	14,204
3/4	104,927	3/4	89,754	3/4	74,580	3/4	59,407	3/4	44,235	3/4	29,062	3/4	13,888
1	104,611	1	89,437	1	74,264	1	59,091	1	43,919	1	28,746	1	13,572
1/4	104,295	1/4	89,121	1/4	73,948	1/4	58,775	1/4	43,603	1/4	28,429	1/4	13,256
1/2	103,979	1/2	88,805	1/2	73,631	1/2	58,459	1/2	43,287	1/2	28,113	1/2	12,940
3/4	103,663	3/4	88,489	3/4	73,315	3/4	58,143	3/4	42,971	3/4	27,797	3/4	12,623
2	103,347	2	88,173	2	72,999	2	57,827	2	42,655	2	27,481	2	12,307
1/4	103,031	1/4	87,857	1/4	72,683	1/4	57,511	1/4	42,339	1/4	27,165	1/4	11,991
1/2	102,714	1/2	87,541	1/2	72,367	1/2	57,195	1/2	42,023	1/2	26,849	1/2	11,675
3/4	102,398	3/4	87,225	3/4	72,051	3/4	56,879	3/4	41,707	3/4	26,533	3/4	11,359
3	102,082	3	86,908	3	71,735	3	56,563	3	41,390	3	26,217	3	11,043
1/4	101,766	1/4	86,592	1/4	71,419	1/4	56,247	1/4	41,074	1/4	25,901	1/4	10,727
1/2	101,450	1/2	86,276	1/2	71,102	1/2	55,931	1/2	40,758	1/2	25,584	1/2	10,411
3/4	101,134	3/4	85,960	3/4	70,786	3/4	55,615	3/4	40,442	3/4	25,268	3/4	10,095
4	100,818	4	85,644	4	70,470	4	55,299	4	40,126	4	24,952	4	9,779
1/4	100,502	1/4	85,328	1/4	70,154	1/4	54,983	1/4	39,810	1/4	24,636	1/4	9,463
1/2	100,185	1/2	85,012	1/2	69,838	1/2	54,667	1/2	39,494	1/2	24,320	1/2	9,147
3/4	99,869	3/4	84,696	3/4	69,522	3/4	54,350	3/4	39,178	3/4	24,004	3/4	8,831
5	99,553	5	84,379	5	69,206	5	54,034	5	38,861	5	23,688	5	8,515
1/4	99,237	1/4	84,063	1/4	68,890	1/4	53,718	1/4	38,545	1/4	23,372	1/4	8,199
1/2	98,921	1/2	83,747	1/2	68,573	1/2	53,402	1/2	38,229	1/2	23,055	1/2	7,884
3/4	98,605	3/4	83,431	3/4	68,257	3/4	53,086	3/4	37,913	3/4	22,739	3/4	7,568
6	98,289	6	83,115	6	67,941	6	52,770	6	37,597	6	22,423	6	7,253
1/4	97,973	1/4	82,799	1/4	67,625	1/4	52,454	1/4	37,281	1/4	22,107	1/4	6,938
1/2	97,657	1/2	82,483	1/2	67,309	1/2	52,138	1/2	36,965	1/2	21,791	1/2	6,623
3/4	97,340	3/4	82,167	3/4	66,993	3/4	51,822	3/4	36,649	3/4	21,475	3/4	6,308
7	97,024	7	81,851	7	66,677	7	51,506	7	36,332	7	21,159	7	5,993
1/4	96,708	1/4	81,534	1/4	66,361	1/4	51,190	1/4	36,016	1/4	20,843	1/4	5,679
1/2	96,392	1/2	81,218	1/2	66,045	1/2	50,874	1/2	35,700	1/2	20,526	1/2	5,365
3/4	96,076	3/4	80,902	3/4	65,729	3/4	50,558	3/4	35,384	3/4	20,210	3/4	5,051
8	95,760	8	80,586	8	65,413	8	50,242	8	35,068	8	19,894	8	4,737
1/4	95,444	1/4	80,270	1/4	65,096	1/4	49,925	1/4	34,752	1/4	19,578	1/4	4,424
1/2	95,128	1/2	79,954	1/2	64,780	1/2	49,609	1/2	34,436	1/2	19,262	1/2	4,111
3/4	94,811	3/4	79,638	3/4	64,464	3/4	49,293	3/4	34,120	3/4	18,946	3/4	3,799
9	94,495	9	79,322	9	64,148	9	48,977	9	33,804	9	18,630	9	3,487
1/4	94,179	1/4	79,005	1/4	63,832	1/4	48,661	1/4	33,487	1/4	18,314	1/4	3,175
1/2	93,863	1/2	78,689	1/2	63,516	1/2	48,345	1/2	33,171	1/2	17,998	1/2	2,864
3/4	93,547	3/4	78,373	3/4	63,200	3/4	48,029	3/4	32,855	3/4	17,681	3/4	2,555
10	93,231	10	78,057	10	62,884	10	47,713	10	32,539	10	17,365	10	2,254
1/4	92,915	1/4	77,741	1/4	62,568	1/4	47,397	1/4	32,223	1/4	17,049	1/4	1,968
1/2	92,599	1/2	77,425	1/2	62,252	1/2	47,080	1/2	31,907	1/2	16,733	1/2	1,701
3/4	92,282	3/4	77,109	3/4	61,936	3/4	46,764	3/4	31,591	3/4	16,417	3/4	1,454
11	91,966	11	76,793	11	61,620	11	46,448	11	31,275	11	16,101	11	1,227
1/4	91,650	1/4	76,476	1/4	61,304	1/4	46,132	1/4	30,958	1/4	15,785	1/4	1,019
1/2	91,334	1/2	76,160	1/2	60,988	1/2	45,816	1/2	30,642	1/2	15,469	1/2	920
3/4	91,018	3/4	75,844	3/4	60,672	3/4	45,500	3/4	30,326	3/4	15,152		

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-11" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05
SAYBOLT LP

C. Endres

BARGE HFL-400

HULL #04-2206

3 PORT

ULLAGE TABLE

MANUAL GAUGING

GALLONS

MANUAL GAUGE HEIGHT 16'-11 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0	105,411	0	90,298	0	75,186	0	60,074	0	44,962	0	29,849	0	14,736
1/4	105,096	1/4	89,984	1/4	74,871	1/4	59,759	1/4	44,647	1/4	29,534	1/4	14,421
1/2	104,781	1/2	89,669	1/2	74,556	1/2	59,444	1/2	44,332	1/2	29,219	1/2	14,106
3/4	104,466	3/4	89,354	3/4	74,241	3/4	59,129	3/4	44,018	3/4	28,905	3/4	13,792
1	104,151	1	89,039	1	73,926	1	58,815	1	43,703	1	28,590	1	13,477
1/4	103,836	1/4	88,724	1/4	73,611	1/4	58,500	1/4	43,388	1/4	28,275	1/4	13,162
1/2	103,522	1/2	88,409	1/2	73,296	1/2	58,185	1/2	43,073	1/2	27,960	1/2	12,847
3/4	103,207	3/4	88,095	3/4	72,982	3/4	57,870	3/4	42,758	3/4	27,645	3/4	12,532
2	102,892	2	87,780	2	72,667	2	57,555	2	42,443	2	27,330	2	12,217
1/4	102,577	1/4	87,465	1/4	72,352	1/4	57,241	1/4	42,128	1/4	27,015	1/4	11,902
1/2	102,262	1/2	87,150	1/2	72,037	1/2	56,926	1/2	41,814	1/2	26,701	1/2	11,588
3/4	101,947	3/4	86,835	3/4	71,722	3/4	56,611	3/4	41,499	3/4	26,386	3/4	11,273
3	101,633	3	86,520	3	71,407	3	56,296	3	41,184	3	26,071	3	10,958
1/4	101,318	1/4	86,206	1/4	71,092	1/4	55,981	1/4	40,869	1/4	25,756	1/4	10,643
1/2	101,003	1/2	85,891	1/2	70,778	1/2	55,667	1/2	40,554	1/2	25,441	1/2	10,328
3/4	100,688	3/4	85,576	3/4	70,463	3/4	55,352	3/4	40,239	3/4	25,126	3/4	10,013
4	100,373	4	85,261	4	70,148	4	55,037	4	39,924	4	24,811	4	9,699
1/4	100,058	1/4	84,946	1/4	69,833	1/4	54,722	1/4	39,610	1/4	24,497	1/4	9,384
1/2	99,744	1/2	84,631	1/2	69,518	1/2	54,407	1/2	39,295	1/2	24,182	1/2	9,069
3/4	99,429	3/4	84,317	3/4	69,203	3/4	54,093	3/4	38,980	3/4	23,867	3/4	8,755
5	99,114	5	84,002	5	68,888	5	53,778	5	38,665	5	23,552	5	8,440
1/4	98,799	1/4	83,687	1/4	68,574	1/4	53,463	1/4	38,350	1/4	23,237	1/4	8,126
1/2	98,484	1/2	83,372	1/2	68,259	1/2	53,148	1/2	38,035	1/2	22,922	1/2	7,811
3/4	98,169	3/4	83,057	3/4	67,944	3/4	52,833	3/4	37,721	3/4	22,607	3/4	7,497
6	97,855	6	82,742	6	67,629	6	52,519	6	37,406	6	22,293	6	7,183
1/4	97,540	1/4	82,427	1/4	67,314	1/4	52,204	1/4	37,091	1/4	21,978	1/4	6,869
1/2	97,225	1/2	82,113	1/2	66,999	1/2	51,889	1/2	36,776	1/2	21,663	1/2	6,555
3/4	96,910	3/4	81,798	3/4	66,685	3/4	51,574	3/4	36,461	3/4	21,348	3/4	6,241
7	96,595	7	81,483	7	66,370	7	51,259	7	36,146	7	21,033	7	5,928
1/4	96,280	1/4	81,168	1/4	66,055	1/4	50,945	1/4	35,831	1/4	20,718	1/4	5,614
1/2	95,966	1/2	80,853	1/2	65,740	1/2	50,630	1/2	35,517	1/2	20,404	1/2	5,301
3/4	95,651	3/4	80,538	3/4	65,425	3/4	50,315	3/4	35,202	3/4	20,089	3/4	4,988
8	95,336	8	80,223	8	65,111	8	50,000	8	34,887	8	19,774	8	4,676
1/4	95,021	1/4	79,909	1/4	64,796	1/4	49,685	1/4	34,572	1/4	19,459	1/4	4,364
1/2	94,706	1/2	79,594	1/2	64,481	1/2	49,370	1/2	34,257	1/2	19,144	1/2	4,052
3/4	94,391	3/4	79,279	3/4	64,166	3/4	49,055	3/4	33,942	3/4	18,829	3/4	3,740
9	94,076	9	78,964	9	63,851	9	48,741	9	33,627	9	18,514	9	3,429
1/4	93,762	1/4	78,649	1/4	63,537	1/4	48,426	1/4	33,313	1/4	18,200	1/4	3,118
1/2	93,447	1/2	78,334	1/2	63,222	1/2	48,111	1/2	32,998	1/2	17,885	1/2	2,809
3/4	93,132	3/4	78,019	3/4	62,907	3/4	47,796	3/4	32,683	3/4	17,570	3/4	2,501
10	92,817	10	77,704	10	62,592	10	47,481	10	32,368	10	17,255	10	2,203
1/4	92,502	1/4	77,390	1/4	62,277	1/4	47,166	1/4	32,053	1/4	16,940	1/4	1,919
1/2	92,187	1/2	77,075	1/2	61,963	1/2	46,851	1/2	31,738	1/2	16,625	1/2	1,651
3/4	91,873	3/4	76,760	3/4	61,648	3/4	46,537	3/4	31,423	3/4	16,310	3/4	1,401
11	91,558	11	76,445	11	61,333	11	46,222	11	31,109	11	15,996	11	1,172
1/4	91,243	1/4	76,130	1/4	61,018	1/4	45,907	1/4	30,794	1/4	15,681	1/4	964
1/2	90,928	1/2	75,815	1/2	60,703	1/2	45,592	1/2	30,479	1/2	15,366		
3/4	90,613	3/4	75,500	3/4	60,389	3/4	45,277	3/4	30,164	3/4	15,051		

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 45'-0" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7
TABLE REVISED TO ACCOMMODATE CORRECTED CALCULATION.
THIS TABLE SUPERSEDES ALL TABLES ISSUED PRIOR TO 04/05

CHART IS CERTIFIED FOR THIS TANK ONLY.
RE-COMPUTED BY: JF 04/25/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05
SAYBOLT LP

O. Endreos

SAYBOLT LP

U. S. Headquarters
400 Swenson Drive
Kenilworth, NJ 07033

BARGE HFL-400

HULL #04-2206

3 STARBOARD

ULLAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0	105,367	0	90,265	0	75,175	0	60,078	0	45,002	0	29,940	0	14,839
1/4	105,052	1/4	89,951	1/4	74,861	1/4	59,763	1/4	44,689	1/4	29,626	1/4	14,524
1/2	104,738	1/2	89,636	1/2	74,547	1/2	59,449	1/2	44,375	1/2	29,311	1/2	14,209
3/4	104,423	3/4	89,322	3/4	74,232	3/4	59,134	3/4	44,062	3/4	28,996	3/4	13,895
1	104,108	1	89,007	1	73,918	1	58,820	1	43,749	1	28,682	1	13,580
1/4	103,794	1/4	88,692	1/4	73,604	1/4	58,505	1/4	43,436	1/4	28,367	1/4	13,265
1/2	103,479	1/2	88,378	1/2	73,289	1/2	58,191	1/2	43,122	1/2	28,053	1/2	12,951
3/4	103,164	3/4	88,063	3/4	72,975	3/4	57,876	3/4	42,809	3/4	27,738	3/4	12,636
2	102,850	2	87,749	2	72,660	2	57,562	2	42,496	2	27,423	2	12,322
1/4	102,535	1/4	87,435	1/4	72,346	1/4	57,247	1/4	42,183	1/4	27,109	1/4	12,007
1/2	102,221	1/2	87,120	1/2	72,031	1/2	56,933	1/2	41,869	1/2	26,794	1/2	11,692
3/4	101,906	3/4	86,806	3/4	71,717	3/4	56,618	3/4	41,556	3/4	26,480	3/4	11,378
3	101,591	3	86,492	3	71,402	3	56,304	3	41,243	3	26,165	3	11,063
1/4	101,277	1/4	86,177	1/4	71,087	1/4	55,989	1/4	40,930	1/4	25,850	1/4	10,749
1/2	100,962	1/2	85,863	1/2	70,773	1/2	55,675	1/2	40,616	1/2	25,536	1/2	10,434
3/4	100,648	3/4	85,549	3/4	70,458	3/4	55,360	3/4	40,303	3/4	25,221	3/4	10,119
4	100,333	4	85,234	4	70,143	4	55,046	4	39,990	4	24,906	4	9,805
1/4	100,018	1/4	84,920	1/4	69,829	1/4	54,731	1/4	39,677	1/4	24,592	1/4	9,490
1/2	99,704	1/2	84,606	1/2	69,514	1/2	54,417	1/2	39,363	1/2	24,277	1/2	9,176
3/4	99,389	3/4	84,291	3/4	69,199	3/4	54,102	3/4	39,050	3/4	23,963	3/4	8,861
5	99,075	5	83,977	5	68,885	5	53,788	5	38,737	5	23,648	5	8,547
1/4	98,760	1/4	83,663	1/4	68,570	1/4	53,474	1/4	38,424	1/4	23,333	1/4	8,233
1/2	98,445	1/2	83,348	1/2	68,255	1/2	53,159	1/2	38,110	1/2	23,019	1/2	7,918
3/4	98,131	3/4	83,034	3/4	67,941	3/4	52,845	3/4	37,797	3/4	22,704	3/4	7,604
6	97,816	6	82,720	6	67,626	6	52,530	6	37,484	6	22,389	6	7,290
1/4	97,501	1/4	82,405	1/4	67,312	1/4	52,216	1/4	37,171	1/4	22,075	1/4	6,976
1/2	97,187	1/2	82,091	1/2	66,997	1/2	51,902	1/2	36,857	1/2	21,760	1/2	6,663
3/4	96,872	3/4	81,777	3/4	66,683	3/4	51,587	3/4	36,544	3/4	21,446	3/4	6,349
7	96,558	7	81,462	7	66,368	7	51,273	7	36,231	7	21,131	7	6,036
1/4	96,243	1/4	81,148	1/4	66,054	1/4	50,958	1/4	35,917	1/4	20,816	1/4	5,723
1/2	95,928	1/2	80,834	1/2	65,739	1/2	50,644	1/2	35,603	1/2	20,502	1/2	5,410
3/4	95,614	3/4	80,519	3/4	65,425	3/4	50,329	3/4	35,289	3/4	20,187	3/4	5,097
8	95,299	8	80,205	8	65,110	8	50,015	8	34,974	8	19,872	8	4,785
1/4	94,985	1/4	79,891	1/4	64,796	1/4	49,702	1/4	34,660	1/4	19,558	1/4	4,473
1/2	94,670	1/2	79,576	1/2	64,481	1/2	49,388	1/2	34,345	1/2	19,243	1/2	4,161
3/4	94,355	3/4	79,262	3/4	64,167	3/4	49,074	3/4	34,030	3/4	18,929	3/4	3,850
9	94,041	9	78,948	9	63,852	9	48,761	9	33,716	9	18,614	9	3,539
1/4	93,726	1/4	78,633	1/4	63,538	1/4	48,448	1/4	33,401	1/4	18,299	1/4	3,228
1/2	93,412	1/2	78,319	1/2	63,223	1/2	48,134	1/2	33,087	1/2	17,985	1/2	2,919
3/4	93,097	3/4	78,004	3/4	62,909	3/4	47,821	3/4	32,772	3/4	17,670	3/4	2,610
10	92,782	10	77,690	10	62,594	10	47,508	10	32,457	10	17,356	10	2,308
1/4	92,468	1/4	77,376	1/4	62,279	1/4	47,195	1/4	32,143	1/4	17,041	1/4	2,019
1/2	92,153	1/2	77,061	1/2	61,965	1/2	46,881	1/2	31,828	1/2	16,726	1/2	1,749
3/4	91,838	3/4	76,747	3/4	61,650	3/4	46,568	3/4	31,513	3/4	16,412	3/4	1,499
11	91,524	11	76,433	11	61,336	11	46,255	11	31,199	11	16,097	11	1,269
1/4	91,209	1/4	76,118	1/4	61,021	1/4	45,942	1/4	30,884	1/4	15,782	1/4	1,059
1/2	90,895	1/2	75,804	1/2	60,707	1/2	45,628	1/2	30,570	1/2	15,468	3/8	958
3/4	90,580	3/4	75,490	3/4	60,392	3/4	45,315	3/4	30,255	3/4	15,153		

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 45'-0" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endreac

U. S. Headquarters
400 Swenson Drive
Kenilworth, NJ 07033

BARGE HFL-400

HULL #04-2206

1 PORT
INNAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL GAUGE HEIGHT 16'-11"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	128,455	0	141,495	0	154,535	0	167,574	0	180,614
1/4	128,727	1/4	141,767	1/4	154,806	1/4	167,846	1/4	180,886
1/2	128,999	1/2	142,038	1/2	155,078	1/2	168,118	1/2	181,157
3/4	129,270	3/4	142,310	3/4	155,350	3/4	168,389	3/4	181,429
1	129,542	1	142,582	1	155,621	1	168,661	1	181,701
1/4	129,814	1/4	142,853	1/4	155,893	1/4	168,933	1/4	181,972
1/2	130,085	1/2	143,125	1/2	156,165	1/2	169,204	1/2	182,244
3/4	130,357	3/4	143,397	3/4	156,436	3/4	169,476	3/4	182,516
2	130,629	2	143,668	2	156,708	2	169,748	2	182,787
1/4	130,900	1/4	143,940	1/4	156,980	1/4	170,019	1/4	183,057
1/2	131,172	1/2	144,212	1/2	157,251	1/2	170,291	1/2	183,329
3/4	131,444	3/4	144,483	3/4	157,523	3/4	170,563	3/4	183,600
3	131,715	3	144,755	3	157,795	3	170,834	3	183,872
1/4	131,987	1/4	145,027	1/4	158,066	1/4	171,106	1/4	184,143
1/2	132,259	1/2	145,298	1/2	158,338	1/2	171,378	1/2	184,415
3/4	132,530	3/4	145,570	3/4	158,610	3/4	171,649	3/4	184,686
4	132,802	4	145,842	4	158,881	4	171,921	4	184,957
1/4	133,074	1/4	146,113	1/4	159,153	1/4	172,193	1/4	185,229
1/2	133,345	1/2	146,385	1/2	159,425	1/2	172,464	1/2	185,500
3/4	133,617	3/4	146,657	3/4	159,696	3/4	172,736	3/4	185,771
5	133,889	5	146,928	5	159,968	5	173,008	5	186,042
1/4	134,160	1/4	147,200	1/4	160,240	1/4	173,279	1/4	186,312
1/2	134,432	1/2	147,472	1/2	160,511	1/2	173,551	1/2	186,583
3/4	134,704	3/4	147,743	3/4	160,783	3/4	173,823	3/4	186,853
6	134,975	6	148,015	6	161,055	6	174,094	6	187,123
1/4	135,247	1/4	148,287	1/4	161,326	1/4	174,366	1/4	187,393
1/2	135,519	1/2	148,558	1/2	161,598	1/2	174,638	1/2	187,663
3/4	135,790	3/4	148,830	3/4	161,870	3/4	174,909	3/4	187,933
7	136,062	7	149,102	7	162,141	7	175,181	7	188,202
1/4	136,333	1/4	149,373	1/4	162,413	1/4	175,453	1/4	188,470
1/2	136,605	1/2	149,645	1/2	162,685	1/2	175,724	1/2	188,739
3/4	136,877	3/4	149,916	3/4	162,956	3/4	175,996	3/4	189,006
8	137,148	8	150,188	8	163,228	8	176,268	8	189,271
1/4	137,420	1/4	150,460	1/4	163,499	1/4	176,539	1/4	189,528
1/2	137,692	1/2	150,731	1/2	163,771	1/2	176,811	1/2	189,772
3/4	137,963	3/4	151,003	3/4	164,043	3/4	177,082	3/4	190,001
9	138,235	9	151,275	9	164,314	9	177,354	9	190,215
1/4	138,507	1/4	151,546	1/4	164,586	1/4	177,626	1/4	190,413
1/2	138,778	1/2	151,818	1/2	164,858	1/2	177,897		
3/4	139,050	3/4	152,090	3/4	165,129	3/4	178,169		
10	139,322	10	152,361	10	165,401	10	178,441		
1/4	139,593	1/4	152,633	1/4	165,673	1/4	178,712		
1/2	139,865	1/2	152,905	1/2	165,944	1/2	178,984		
3/4	140,137	3/4	153,176	3/4	166,216	3/4	179,256		
11	140,408	11	153,448	11	166,488	11	179,527		
1/4	140,680	1/4	153,720	1/4	166,759	1/4	179,799		
1/2	140,952	1/2	153,991	1/2	167,031	1/2	180,071		
3/4	141,223	3/4	154,263	3/4	167,303	3/4	180,342		

GAUGE LOCATED 11'-1" OFF CENTERLINE BULKHEAD AND 38'-10" FORWARD OF AFT BULKHEAD

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endress

BARGE HFL-400
HULL #04-2206

1 STARBOARD
INNAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	128,465	0	141,503	0	154,540	0	167,577	0	180,615
1/4	128,737	1/4	141,774	1/4	154,812	1/4	167,849	1/4	180,886
1/2	129,009	1/2	142,046	1/2	155,083	1/2	168,120	1/2	181,158
3/4	129,280	3/4	142,318	3/4	155,355	3/4	168,392	3/4	181,429
1	129,552	1	142,589	1	155,626	1	168,664	1	181,701
1/4	129,823	1/4	142,861	1/4	155,898	1/4	168,935	1/4	181,973
1/2	130,095	1/2	143,132	1/2	156,170	1/2	169,207	1/2	182,244
3/4	130,367	3/4	143,404	3/4	156,441	3/4	169,479	3/4	182,516
2	130,638	2	143,676	2	156,713	2	169,750	2	182,789
1/4	130,910	1/4	143,947	1/4	156,984	1/4	170,022	1/4	183,060
1/2	131,182	1/2	144,219	1/2	157,256	1/2	170,293	1/2	183,332
3/4	131,453	3/4	144,490	3/4	157,528	3/4	170,565	3/4	183,603
3	131,725	3	144,762	3	157,799	3	170,837	3	183,875
1/4	131,996	1/4	145,034	1/4	158,071	1/4	171,108	1/4	184,146
1/2	132,268	1/2	145,305	1/2	158,343	1/2	171,380	1/2	184,418
3/4	132,540	3/4	145,577	3/4	158,614	3/4	171,651	3/4	184,689
4	132,811	4	145,848	4	158,886	4	171,923	4	184,961
1/4	133,083	1/4	146,120	1/4	159,157	1/4	172,195	1/4	185,232
1/2	133,354	1/2	146,392	1/2	159,429	1/2	172,466	1/2	185,503
3/4	133,626	3/4	146,663	3/4	159,701	3/4	172,738	3/4	185,774
5	133,898	5	146,935	5	159,972	5	173,009	5	186,045
1/4	134,169	1/4	147,207	1/4	160,244	1/4	173,281	1/4	186,315
1/2	134,441	1/2	147,478	1/2	160,515	1/2	173,553	1/2	186,586
3/4	134,712	3/4	147,750	3/4	160,787	3/4	173,824	3/4	186,856
6	134,984	6	148,021	6	161,059	6	174,096	6	187,126
1/4	135,256	1/4	148,293	1/4	161,330	1/4	174,367	1/4	187,396
1/2	135,527	1/2	148,565	1/2	161,602	1/2	174,639	1/2	187,666
3/4	135,799	3/4	148,836	3/4	161,873	3/4	174,911	3/4	187,935
7	136,070	7	149,108	7	162,145	7	175,182	7	188,204
1/4	136,342	1/4	149,379	1/4	162,417	1/4	175,454	1/4	188,473
1/2	136,614	1/2	149,651	1/2	162,688	1/2	175,726	1/2	188,740
3/4	136,885	3/4	149,923	3/4	162,960	3/4	175,997	3/4	189,007
8	137,157	8	150,194	8	163,231	8	176,269	8	189,268
1/4	137,429	1/4	150,466	1/4	163,503	1/4	176,540	1/4	189,518
1/2	137,700	1/2	150,737	1/2	163,775	1/2	176,812	1/2	189,753
3/4	137,972	3/4	151,009	3/4	164,046	3/4	177,084	3/4	189,972
9	138,243	9	151,281	9	164,318	9	177,355	9	190,177
1/4	138,515	1/4	151,552	1/4	164,590	1/4	177,627	1/4	190,367
1/2	138,787	1/2	151,824	1/2	164,861	1/2	177,898		
3/4	139,058	3/4	152,095	3/4	165,133	3/4	178,170		
10	139,330	10	152,367	10	165,404	10	178,442		
1/4	139,601	1/4	152,639	1/4	165,676	1/4	178,713		
1/2	139,873	1/2	152,910	1/2	165,948	1/2	178,985		
3/4	140,145	3/4	153,182	3/4	166,219	3/4	179,256		
11	140,416	11	153,454	11	166,491	11	179,528		
1/4	140,688	1/4	153,725	1/4	166,762	1/4	179,800		
1/2	140,959	1/2	153,997	1/2	167,034	1/2	180,071		
3/4	141,231	3/4	154,268	3/4	167,306	3/4	180,343		

GAUGE LOCATED 11'-4" OFF CENTERLINE BULKHEAD AND 38'-10" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
 BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CHART IS CERTIFIED FOR THIS TANK ONLY.
 COMPUTED BY: JF 03/16/05
 STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

A. Endress

SAYBOLT LP

U. S. Headquarters
400 Swenson Drive
Kenilworth, NJ 07033

BARGE HFL-400

HULL #04-2206

**2 PORT
INNAGE TABLE
MANUAL GAUGING
GALLONS**

MANUAL GAUGE HEIGHT 16'-10 7/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	151,681	0	166,802	0	181,924	0	197,045	0	212,167
1/4	151,996	1/4	167,117	1/4	182,239	1/4	197,360	1/4	212,482
1/2	152,311	1/2	167,433	1/2	182,554	1/2	197,675	1/2	212,797
3/4	152,626	3/4	167,748	3/4	182,869	3/4	197,990	3/4	213,113
1	152,941	1	168,063	1	183,184	1	198,305	1	213,428
1/4	153,256	1/4	168,378	1/4	183,499	1/4	198,620	1/4	213,743
1/2	153,571	1/2	168,693	1/2	183,814	1/2	198,935	1/2	214,058
3/4	153,886	3/4	169,008	3/4	184,129	3/4	199,251	3/4	214,373
2	154,201	2	169,323	2	184,444	2	199,566	2	214,688
1/4	154,516	1/4	169,638	1/4	184,759	1/4	199,881	1/4	215,003
1/2	154,831	1/2	169,953	1/2	185,074	1/2	200,196	1/2	215,318
3/4	155,146	3/4	170,268	3/4	185,389	3/4	200,511	3/4	215,632
3	155,461	3	170,583	3	185,704	3	200,826	3	215,947
1/4	155,776	1/4	170,898	1/4	186,019	1/4	201,141	1/4	216,261
1/2	156,091	1/2	171,213	1/2	186,334	1/2	201,456	1/2	216,576
3/4	156,406	3/4	171,528	3/4	186,649	3/4	201,771	3/4	216,890
4	156,721	4	171,843	4	186,964	4	202,086	4	217,204
1/4	157,037	1/4	172,158	1/4	187,279	1/4	202,401	1/4	217,517
1/2	157,352	1/2	172,473	1/2	187,594	1/2	202,716	1/2	217,831
3/4	157,667	3/4	172,788	3/4	187,909	3/4	203,031	3/4	218,144
5	157,982	5	173,103	5	188,224	5	203,346	5	218,457
1/4	158,297	1/4	173,418	1/4	188,540	1/4	203,661	1/4	218,770
1/2	158,612	1/2	173,733	1/2	188,855	1/2	203,976	1/2	219,082
3/4	158,927	3/4	174,048	3/4	189,170	3/4	204,291	3/4	219,394
6	159,242	6	174,363	6	189,485	6	204,606	6	219,705
1/4	159,557	1/4	174,678	1/4	189,800	1/4	204,921	1/4	220,016
1/2	159,872	1/2	174,993	1/2	190,115	1/2	205,236	1/2	220,326
3/4	160,187	3/4	175,308	3/4	190,430	3/4	205,551	3/4	220,631
7	160,502	7	175,623	7	190,745	7	205,866	7	220,923
1/4	160,817	1/4	175,938	1/4	191,060	1/4	206,181	1/4	221,198
1/2	161,132	1/2	176,253	1/2	191,375	1/2	206,496	1/2	221,455
3/4	161,447	3/4	176,568	3/4	191,690	3/4	206,811	3/4	221,695
8	161,762	8	176,883	8	192,005	8	207,126	8	221,917
1/4	162,077	1/4	177,198	1/4	192,320	1/4	207,441	1/4	222,122
1/2	162,392	1/2	177,513	1/2	192,635	1/2	207,756	1/2	222,309
3/4	162,707	3/4	177,828	3/4	192,950	3/4	208,071	3/4	222,479
9	163,022	9	178,144	9	193,265	9	208,386	9	222,632
1/4	163,337	1/4	178,459	1/4	193,580	1/4	208,701		
1/2	163,652	1/2	178,774	1/2	193,895	1/2	209,016		
3/4	163,967	3/4	179,089	3/4	194,210	3/4	209,331		
10	164,282	10	179,404	10	194,525	10	209,647		
1/4	164,597	1/4	179,719	1/4	194,840	1/4	209,962		
1/2	164,912	1/2	180,034	1/2	195,155	1/2	210,277		
3/4	165,227	3/4	180,349	3/4	195,470	3/4	210,592		
11	165,542	11	180,664	11	195,785	11	210,907		
1/4	165,857	1/4	180,979	1/4	196,100	1/4	211,222		
1/2	166,172	1/2	181,294	1/2	196,415	1/2	211,537		
3/4	166,487	3/4	181,609	3/4	196,730	3/4	211,852		

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-11" FORWARD OF AFT BULKHEAD

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endress

BARGE HFL-400
HULL #04-2206

2 STARBOARD
INNAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	152,187	0	167,361	0	182,535	0	197,708	0	212,882
1/4	152,503	1/4	167,677	1/4	182,851	1/4	198,025	1/4	213,198
1/2	152,819	1/2	167,993	1/2	183,167	1/2	198,341	1/2	213,514
3/4	153,136	3/4	168,309	3/4	183,483	3/4	198,657	3/4	213,831
1	153,452	1	168,625	1	183,799	1	198,973	1	214,147
1/4	153,768	1/4	168,942	1/4	184,115	1/4	199,289	1/4	214,463
1/2	154,084	1/2	169,258	1/2	184,431	1/2	199,605	1/2	214,779
3/4	154,400	3/4	169,574	3/4	184,748	3/4	199,921	3/4	215,097
2	154,716	2	169,890	2	185,064	2	200,237	2	215,413
1/4	155,032	1/4	170,206	1/4	185,380	1/4	200,554	1/4	215,729
1/2	155,348	1/2	170,522	1/2	185,696	1/2	200,870	1/2	216,045
3/4	155,665	3/4	170,838	3/4	186,012	3/4	201,186	3/4	216,361
3	155,981	3	171,154	3	186,328	3	201,502	3	216,677
1/4	156,297	1/4	171,471	1/4	186,644	1/4	201,818	1/4	216,993
1/2	156,613	1/2	171,787	1/2	186,960	1/2	202,134	1/2	217,309
3/4	156,929	3/4	172,103	3/4	187,277	3/4	202,450	3/4	217,625
4	157,245	4	172,419	4	187,593	4	202,766	4	217,940
1/4	157,561	1/4	172,735	1/4	187,909	1/4	203,083	1/4	218,256
1/2	157,877	1/2	173,051	1/2	188,225	1/2	203,399	1/2	218,571
3/4	158,193	3/4	173,367	3/4	188,541	3/4	203,715	3/4	218,886
5	158,510	5	173,683	5	188,857	5	204,031	5	219,201
1/4	158,826	1/4	173,999	1/4	189,173	1/4	204,347	1/4	219,516
1/2	159,142	1/2	174,316	1/2	189,489	1/2	204,663	1/2	219,831
3/4	159,458	3/4	174,632	3/4	189,805	3/4	204,979	3/4	220,145
6	159,774	6	174,948	6	190,122	6	205,295	6	220,459
1/4	160,090	1/4	175,264	1/4	190,438	1/4	205,611	1/4	220,773
1/2	160,406	1/2	175,580	1/2	190,754	1/2	205,928	1/2	221,086
3/4	160,722	3/4	175,896	3/4	191,070	3/4	206,244	3/4	221,399
7	161,039	7	176,212	7	191,386	7	206,560	7	221,712
1/4	161,355	1/4	176,528	1/4	191,702	1/4	206,876	1/4	222,024
1/2	161,671	1/2	176,845	1/2	192,018	1/2	207,192	1/2	222,334
3/4	161,987	3/4	177,161	3/4	192,334	3/4	207,508	3/4	222,640
8	162,303	8	177,477	8	192,651	8	207,824	8	222,931
1/4	162,619	1/4	177,793	1/4	192,967	1/4	208,140	1/4	223,205
1/2	162,935	1/2	178,109	1/2	193,283	1/2	208,457	1/2	223,462
3/4	163,251	3/4	178,425	3/4	193,599	3/4	208,773	3/4	223,701
9	163,568	9	178,741	9	193,915	9	209,089	9	223,922
1/4	163,884	1/4	179,057	1/4	194,231	1/4	209,405	1/4	224,126
1/2	164,200	1/2	179,374	1/2	194,547	1/2	209,721	1/2	224,312
3/4	164,516	3/4	179,690	3/4	194,863	3/4	210,037		
10	164,832	10	180,006	10	195,180	10	210,353		
1/4	165,148	1/4	180,322	1/4	195,496	1/4	210,669		
1/2	165,464	1/2	180,638	1/2	195,812	1/2	210,986		
3/4	165,780	3/4	180,954	3/4	196,128	3/4	211,302		
11	166,096	11	181,270	11	196,444	11	211,618		
1/4	166,413	1/4	181,586	1/4	196,760	1/4	211,934		
1/2	166,729	1/2	181,902	1/2	197,076	1/2	212,250		
3/4	167,045	3/4	182,218	3/4	197,392	3/4	212,566		

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 44'-11" FORWARD OF AFT BULKHEAD

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endress

BARGE HFL-400

HULL #04-2206

3 PORT

INNAGE TABLE

MANUAL GAUGING

GALLONS

MANUAL GAUGE HEIGHT 16'-11 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	150,651	0	161,741	0	172,831	0	183,921	0	195,011
1/4	150,882	1/4	161,972	1/4	173,062	1/4	184,152	1/4	195,242
1/2	151,113	1/2	162,203	1/2	173,293	1/2	184,383	1/2	195,473
3/4	151,344	3/4	162,434	3/4	173,524	3/4	184,614	3/4	195,704
1	151,575	1	162,665	1	173,755	1	184,845	1	195,935
1/4	151,806	1/4	162,896	1/4	173,986	1/4	185,076	1/4	196,167
1/2	152,037	1/2	163,127	1/2	174,217	1/2	185,308	1/2	196,398
3/4	152,268	3/4	163,359	3/4	174,449	3/4	185,539	3/4	196,629
2	152,500	2	163,590	2	174,680	2	185,770	2	196,860
1/4	152,731	1/4	163,821	1/4	174,911	1/4	186,001	1/4	197,091
1/2	152,962	1/2	164,052	1/2	175,142	1/2	186,232	1/2	197,321
3/4	153,193	3/4	164,283	3/4	175,373	3/4	186,463	3/4	197,552
3	153,424	3	164,514	3	175,604	3	186,694	3	197,783
1/4	153,655	1/4	164,745	1/4	175,835	1/4	186,925	1/4	198,014
1/2	153,886	1/2	164,976	1/2	176,066	1/2	187,156	1/2	198,245
3/4	154,117	3/4	165,207	3/4	176,297	3/4	187,387	3/4	198,475
4	154,348	4	165,438	4	176,528	4	187,618	4	198,706
1/4	154,579	1/4	165,669	1/4	176,759	1/4	187,849	1/4	198,936
1/2	154,810	1/2	165,900	1/2	176,990	1/2	188,080	1/2	199,166
3/4	155,041	3/4	166,131	3/4	177,221	3/4	188,311	3/4	199,396
5	155,272	5	166,362	5	177,452	5	188,542	5	199,626
1/4	155,503	1/4	166,593	1/4	177,683	1/4	188,773	1/4	199,856
1/2	155,734	1/2	166,824	1/2	177,914	1/2	189,004	1/2	200,086
3/4	155,965	3/4	167,055	3/4	178,145	3/4	189,235	3/4	200,315
6	156,196	6	167,286	6	178,376	6	189,466	6	200,544
1/4	156,427	1/4	167,517	1/4	178,607	1/4	189,697	1/4	200,773
1/2	156,658	1/2	167,748	1/2	178,838	1/2	189,928	1/2	201,001
3/4	156,889	3/4	167,979	3/4	179,069	3/4	190,159	3/4	201,229
7	157,120	7	168,210	7	179,300	7	190,390	7	201,457
1/4	157,351	1/4	168,441	1/4	179,531	1/4	190,621	1/4	201,680
1/2	157,582	1/2	168,672	1/2	179,763	1/2	190,853	1/2	201,895
3/4	157,813	3/4	168,904	3/4	179,994	3/4	191,084	3/4	202,096
8	158,045	8	169,135	8	180,225	8	191,315	8	202,284
1/4	158,276	1/4	169,366	1/4	180,456	1/4	191,546	1/4	202,459
1/2	158,507	1/2	169,597	1/2	180,687	1/2	191,777	1/2	202,620
3/4	158,738	3/4	169,828	3/4	180,918	3/4	192,008	3/4	202,769
9	158,969	9	170,059	9	181,149	9	192,239	9	202,904
1/4	159,200	1/4	170,290	1/4	181,380	1/4	192,470	1/4	203,026
1/2	159,431	1/2	170,521	1/2	181,611	1/2	192,701	1/2	203,135
3/4	159,662	3/4	170,752	3/4	181,842	3/4	192,932		
10	159,893	10	170,983	10	182,073	10	193,163		
1/4	160,124	1/4	171,214	1/4	182,304	1/4	193,394		
1/2	160,355	1/2	171,445	1/2	182,535	1/2	193,625		
3/4	160,586	3/4	171,676	3/4	182,766	3/4	193,856		
11	160,817	11	171,907	11	182,997	11	194,087		
1/4	161,048	1/4	172,138	1/4	183,228	1/4	194,318		
1/2	161,279	1/2	172,369	1/2	183,459	1/2	194,549		
3/4	161,510	3/4	172,600	3/4	183,690	3/4	194,780		

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 45'-0" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7
TABLE REVISED TO ACCOMMODATE CORRECTED CALCULATION.
THIS TABLE SUPERSEDES ALL TABLES ISSUED PRIOR TO 04/05

CHART IS CERTIFIED FOR THIS TANK ONLY.
RE-COMPUTED BY: JF 04/25/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

O. Endress

SAYBOLT LP

U. S. Headquarters
400 Swenson Drive
Kenilworth, NJ 07033

BARGE HFL-400

HULL #04-2206

3 STARBOARD

INNAGE TABLE
MANUAL GAUGING
GALLONS

MANUAL GAUGE HEIGHT 16'-11 3/8"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.
0	150.460	0	161.532	0	172.603	0	183.675	0	194.747
1/4	150.691	1/4	161.762	1/4	172.834	1/4	183.906	1/4	194.977
1/2	150.921	1/2	161.993	1/2	173.065	1/2	184.136	1/2	195.208
3/4	151.152	3/4	162.224	3/4	173.295	3/4	184.367	3/4	195.439
1	151.383	1	162.454	1	173.526	1	184.598	1	195.669
1/4	151.613	1/4	162.685	1/4	173.757	1/4	184.828	1/4	195.900
1/2	151.844	1/2	162.916	1/2	173.987	1/2	185.059	1/2	196.131
3/4	152.075	3/4	163.146	3/4	174.218	3/4	185.290	3/4	196.362
2	152.305	2	163.377	2	174.449	2	185.520	2	196.592
1/4	152.536	1/4	163.608	1/4	174.679	1/4	185.751	1/4	196.823
1/2	152.766	1/2	163.838	1/2	174.910	1/2	185.982	1/2	197.054
3/4	152.997	3/4	164.069	3/4	175.141	3/4	186.212	3/4	197.284
3	153.228	3	164.299	3	175.371	3	186.443	3	197.515
1/4	153.458	1/4	164.530	1/4	175.602	1/4	186.674	1/4	197.745
1/2	153.689	1/2	164.761	1/2	175.832	1/2	186.904	1/2	197.975
3/4	153.920	3/4	164.991	3/4	176.063	3/4	187.135	3/4	198.206
4	154.150	4	165.222	4	176.294	4	187.365	4	198.436
1/4	154.381	1/4	165.453	1/4	176.524	1/4	187.596	1/4	198.666
1/2	154.612	1/2	165.683	1/2	176.755	1/2	187.827	1/2	198.896
3/4	154.842	3/4	165.914	3/4	176.986	3/4	188.057	3/4	199.125
5	155.073	5	166.145	5	177.216	5	188.288	5	199.355
1/4	155.304	1/4	166.375	1/4	177.447	1/4	188.519	1/4	199.585
1/2	155.534	1/2	166.606	1/2	177.678	1/2	188.749	1/2	199.814
3/4	155.765	3/4	166.837	3/4	177.908	3/4	188.980	3/4	200.043
6	155.996	6	167.067	6	178.139	6	189.211	6	200.272
1/4	156.226	1/4	167.298	1/4	178.370	1/4	189.441	1/4	200.500
1/2	156.457	1/2	167.529	1/2	178.600	1/2	189.672	1/2	200.728
3/4	156.688	3/4	167.759	3/4	178.831	3/4	189.903	3/4	200.956
7	156.918	7	167.990	7	179.062	7	190.133	7	201.184
1/4	157.149	1/4	168.221	1/4	179.292	1/4	190.364	1/4	201.409
1/2	157.380	1/2	168.451	1/2	179.523	1/2	190.595	1/2	201.628
3/4	157.610	3/4	168.682	3/4	179.754	3/4	190.825	3/4	201.835
8	157.841	8	168.913	8	179.984	8	191.056	8	202.029
1/4	158.072	1/4	169.143	1/4	180.215	1/4	191.287	1/4	202.209
1/2	158.302	1/2	169.374	1/2	180.446	1/2	191.517	1/2	202.376
3/4	158.533	3/4	169.605	3/4	180.676	3/4	191.748	3/4	202.530
9	158.764	9	169.835	9	180.907	9	191.979	9	202.671
1/4	158.994	1/4	170.066	1/4	181.138	1/4	192.209	1/4	202.798
1/2	159.225	1/2	170.297	1/2	181.368	1/2	192.440	1/2	202.913
3/4	159.456	3/4	170.527	3/4	181.599	3/4	192.671		
10	159.686	10	170.758	10	181.830	10	192.901		
1/4	159.917	1/4	170.989	1/4	182.060	1/4	193.132		
1/2	160.148	1/2	171.219	1/2	182.291	1/2	193.363		
3/4	160.378	3/4	171.450	3/4	182.522	3/4	193.593		
11	160.609	11	171.681	11	182.752	11	193.824		
1/4	160.840	1/4	171.911	1/4	182.983	1/4	194.055		
1/2	161.070	1/2	172.142	1/2	183.214	1/2	194.285		
3/4	161.301	3/4	172.373	3/4	183.444	3/4	194.516		

GAUGE LOCATED 11'-3" OFF CENTERLINE BULKHEAD AND 45'-0" FORWARD OF AFT BULKHEAD.

LBDM: 234'-0"

TABLES APPLY ONLY WHEN BARGE IS ON EVEN KEEL.
BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH API MPMS CHAPTER 2.7.

CHART IS CERTIFIED FOR THIS TANK ONLY.
COMPUTED BY: JF 03/16/05
STRAPPED BY: CA-JAB-DH-JF 03/07/05

SAYBOLT LP

D. Endress