

NOAA Ship ADVENTUROUS REVISIONS

REV	ITEM	DESCRIPTION	DATE	APPD
-	ALL	1. SOUNDING TABLES BASED UPON NAVSEA DWG. NO. 085-6233618. 2. INCORPORATES CHANGES FOR FY 2001 CONVERSION OF NOAA SHIP ADVENTUROUS TO FISHERIES RESEARCH VESSEL.	7/31/01	

SIZE	NOAA CAGE	NOAA DRAWING NO.	REV
A	OYLJ5	ADV-800-004	—
FILENAME: ADV-800-004.DOC		SHEET 2 OF 68	

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CAPACITY SUMMARY

Capacities are for 100% full, except as noted

TANK	CAPACITY EACH (GAL)	TOTAL CAPACITY (GAL)
S.W. BALLAST		
4-B-0-W	9,563	9,563
4-23-0-W	20,458	20,458
4-23-1-W	11,659	11,659
4-23-2-W	12,004	12,004
4-52-0-W	7,669	7,669
4-60-0-W	10,280	10,280
4-86-1-W	19,303	19,303
4-86-2-W	22,010	22,010
3-94-1-W, 3-94-2-W	11,026	22,052
TOTAL:		134,998
FUEL OIL (95% FULL)		
4-6-1-F, 4-6-2-F	13,248	26,496
4-14-1-F, 4-14-2-F	24,533	49,066
4-52-1-F, 4-52-2-F	3,083	6,166
4-52-3-F	6,667	6,667
4-52-4-F	6,005	6,005
4-60-1-F	11,255	11,255
4-60-2-F	10,520	10,520
4-72-1-F	10,126	10,126
4-72-2-F	13,042	13,042
4-72-3-F, 4-72-4-F	11,646	23,292
TOTAL:		162,635
POTABLE WATER		
3 ¹ / ₂ -52-1-W, 3 ¹ / ₂ -52-2-W	2,441	4,882
TOTAL:		4,882
LUBE OIL (95% FULL)		
2-60-1-F	993	993
2-60-2-F	745	745
TOTAL:		1,738
ANTI-ROLL		
2-72-0-W	21,844	21,844
TOTAL:		21,844

CAPACITY SUMMARY (cont'd)

TANK	CAPACITY EACH (GAL)	TOTAL CAPACITY (GAL)
HYDRAULIC FLUID (95% FULL)		
01-72-2-F	160	160
	TOTAL:	160
LUBE OIL SETTLING (95% FULL)		
3-54-2-F	233	233
	TOTAL:	233
OILY WASTE (95% FULL)		
4-60-3-FF, 4-60-4-FF	1,503	3,006
	TOTAL:	3,006
PURIFIER SLUDGE (95% FULL)		
3-50-2-FF	106	106
	TOTAL:	106
VOID		
4-34-0-V	5,586	5,586
4-34-01-V	45,818	45,818
	TOTAL:	51,404
ANTI-ROLL DUMP TANK		
4-40-0-W	9,494	9,494
	TOTAL:	9,494
WASTE WATER TANK		
2-92-2-W	1,081	1,081
3-23-2-W	319	319
	TOTAL:	1,400
EMERG. DIESEL GEN. DAY TANK (95% FULL)		
01-6-1-F	336	336
	TOTAL:	336

Capacity Table 4-B-O-W				Fore Peak, Frs 6-Bow				T-AGOS 13					
Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	18	21	24	27	30	33	37	40	44	49	53	58	0
1	63	68	74	80	86	92	99	105	112	120	127	135	1
2	143	151	160	169	178	187	197	206	216	227	237	248	2
3	259	270	282	294	307	320	333	346	360	375	390	405	3
4	420	436	453	469	486	504	522	540	558	577	597	616	4
5	636	657	678	699	721	742	765	788	811	834	859	883	5
6	908	934	959	986	1013	1040	1067	1095	1124	1153	1182	1212	6
7	1242	1273	1304	1335	1367	1400	1433	1466	1500	1534	1569	1604	7
8	1639	1675	1711	1748	1785	1822	1860	1899	1937	1976	2016	2056	8
9	2096	2137	2178	2220	2262	2305	2348	2392	2436	2481	2527	2572	9
10	2619	2666	2713	2761	2810	2859	2908	2958	3008	3059	3111	3162	10
11	3215	3268	3321	3375	3429	3484	3539	3595	3651	3708	3766	3823	11
12	3882	3940	4000	4060	4120	4181	4243	4305	4368	4431	4495	4559	12
13	4624	4690	4756	4823	4890	4958	5027	5096	5166	5236	5308	5379	13
14	5452	5525	5599	5673	5748	5824	5900	5977	6055	6133	6212	6292	14
15	6372	6453	6534	6616	6699	6783	6867	6953	7039	7126	7213	7302	15
16	7391	7481	7572	7663	7756	7849	7943	8037	8133	8229	8326	8424	16
17	8523	8622	8723	8824	8925	9028	9131	9236	9341	9446	9545		17

Tank Full, Sounding= 17'-10-1/2"

Capacity= 9563 Gals.

Low Point of Tank = 1'-4-3/4"Abv. Bottom of Keel

Zero Sounding = 1'-7-7/8"Abv. Low Point of Tank

SHIP: T-AGOS 13
4-B-0-W

Dwg. No. 53711-085-6233618
Fore Peak, Frs 6-Bow

SOUNDING FEET INCHES		VCG	LCG(+fwd)	TCG	INERTIA
0	0	2.59	85.92	0.00	0.81
0	6	2.95	86.12	0.00	1.99
1	0	3.32	86.31	0.00	4.11
1	6	3.68	86.46	0.00	7.53
2	0	4.03	86.57	0.00	12.59
2	6	4.38	86.66	0.00	19.66
3	0	4.73	86.72	0.00	29.10
3	6	5.08	86.81	0.00	41.28
4	0	5.44	86.91	0.00	56.70
4	6	5.80	87.02	0.00	75.88
5	0	6.17	87.12	0.00	99.33
5	6	6.53	87.22	0.00	127.56
6	0	6.89	87.31	0.00	161.10
6	6	7.25	87.41	0.00	200.50
7	0	7.61	87.50	0.00	246.34
7	6	7.97	87.58	0.00	299.16
8	0	8.33	87.66	0.00	358.19
8	6	8.68	87.74	0.00	419.23
9	0	9.03	87.81	0.00	481.67
9	6	9.39	87.89	0.00	549.64
10	0	9.74	87.97	0.00	622.52
10	6	10.09	88.07	0.00	702.63
11	0	10.45	88.16	0.00	790.18
11	6	10.80	88.25	0.00	885.68
12	0	11.16	88.34	0.00	989.60
12	6	11.51	88.43	0.00	1102.45
13	0	11.87	88.53	0.00	1228.76
13	6	12.22	88.62	0.00	1378.53
14	0	12.58	88.71	0.00	1544.84
14	6	12.94	88.80	0.00	1726.10
15	0	13.30	88.89	0.00	1923.14
15	6	13.66	88.98	0.00	2136.80
16	0	14.02	89.08	0.00	2368.05
16	6	14.39	89.17	0.00	2617.93
17	0	14.76	89.27	0.00	2887.49
17	6	15.13	89.37	0.00	3177.78
17	10.51	15.39	89.45	0.00	1018.47

Tank Full, Sounding= 17'-10-1/2" Capacity= 9563 Gals.
Low Point of Tank = 1'-4-3/4" Abv. Bottom of Keel
Zero Sounding = 1'-7-7/8" Abv. Low Point of Tank

Capacity Table		4-23-0-W											SW Ballast, Frs 23-34		T-AGOS 13	
Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)			
	0	1	2	3	4	5	6	7	8	9	10	11				
0	12	42	79	125	179	240	309	387	474	569	674	788	0			
1	911	1043	1184	1334	1491	1655	1825	2005	2184	2364	2544	2724	1			
2	2906	3088	3270	3454	3638	3822	4005	4189	4373	4557	4741	4925	2			
3	5108	5292	5476	5660	5844	6028	6211	6395	6579	6763	6947	7131	3			
4	7314	7498	7682	7866	8050	8234	8417	8601	8785	8969	9153	9337	4			
5	9520	9704	9888	10072	10256	10440	10623	10807	10991	11175	11359	11543	5			
6	11726	11910	12094	12278	12462	12646	12829	13013	13197	13381	13565	13749	6			
7	13932	14116	14300	14484	14668	14852	15035	15219	15403	15587	15771	15955	7			
8	16138	16322	16506	16690	16874	17058	17241	17425	17609	17793	17977	18161	8			
9	18344	18528	18712	18896	19080	19264	19447	19631	19815	19999	20183	20367	9			
Tank Full, Sounding= 9'-11-1/2" Capacity= 20458 Gals. Low Point of Tank = 0'-0-9/16" Abv. Bottom of Keel Zero Sounding = 0'-0-1/2" Abv. Low Point of Tank																

SHIP: T-AGOS 13
4-23-0-W

Dwg. No. 53711-085-6233618
SW Ballast, Frs 23-34

SOUNDING FEET INCHES		VCG	LCG(+fwd)	TCG	INERTIA
0	0	0.07	39.93	-0.12	19.19
0	6	0.37	39.56	-0.27	456.42
1	0	0.69	39.26	-0.33	2432.67
1	6	1.02	39.09	-0.34	5835.99
2	0	1.33	39.15	-0.37	6437.81
2	6	1.60	39.24	-0.42	6657.12
3	0	1.87	39.31	-0.44	6657.12
3	6	2.13	39.34	-0.45	6657.12
4	0	2.39	39.37	-0.47	6657.12
4	6	2.64	39.39	-0.47	6657.12
5	0	2.90	39.41	-0.48	6657.12
5	6	3.15	39.42	-0.48	6657.12
6	0	3.41	39.43	-0.49	6657.12
6	6	3.66	39.44	-0.49	6657.12
7	0	3.91	39.45	-0.49	6657.12
7	6	4.16	39.45	-0.50	6657.12
8	0	4.41	39.46	-0.50	6657.12
8	6	4.66	39.46	-0.50	6657.12
9	0	4.91	39.46	-0.50	6657.12
9	6	5.17	39.47	-0.50	6657.12
9	11.50	5.40	39.47	-0.50	6657.12

Tank Full, Sounding= 9'-11-1/2" Capacity= 20458 Gals.
Low Point of Tank = 0'-0-9/16" Abv. Bottom of Keel
Zero Sounding = 0'-0-1/2" Abv. Low Point of Tank

Capacity Table		4-23-1-W, Stbd.										SW Ballast, Frs 23-34		T-AGOS 13	
Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)		
	0	1	2	3	4	5	6	7	8	9	10	11			
0	1	2	5	8	12	20	31	46	64	85	110	138	0		
1	170	205	245	288	335	386	440	499	562	628	699	773	1		
2	851	932	1017	1105	1195	1289	1386	1486	1589	1692	1799	1907	2		
3	2015	2125	2234	2345	2456	2569	2681	2791	2901	3012	3123	3235	3		
4	3347	3460	3573	3686	3800	3914	4028	4143	4258	4373	4488	4604	4		
5	4803	4920	5037	5154	5272	5390	5508	5627	5662	5781	5901	6021	5		
6	6141	6261	6382	6503	6625	6746	6869	6991	7114	7237	7360	7484	6		
7	7608	7732	7857	7982	8108	8233	8359	8486	8612	8739	8867	8994	7		
8	9122	9251	9379	9508	9638	9767	9897	10028	10158	10289	10420	10552	8		
9	10684	10816	10949	11082	11215	11348	11482	11617					9		
Tank Full, Sounding= 9'-7-1/4" Capacity= 11659 Gals. Low Point of Tank = 1'-3-1/2" Abv. Bottom of Keel Zero Sounding = 0'-1-1/8" Abv. Low Point of Tank															

SHIP: T-AGOS 13
4-23-1-W, Stbd.

Dwg. No. 53711-085-6233618
SW Ballast, Frs 23-34

SOUNDING		VCG	LCG(+fwd)	TCG	INERTIA
FEET	INCHES				
0	0	1.35	29.00	8.19	0.06
0	6	1.69	31.98	8.83	9.77
1	0	2.02	35.15	9.35	80.70
1	6	2.34	36.26	9.97	295.99
* 2	0	2.65	36.92	10.60	725.69
2	6	2.95	37.43	11.15	1176.70
3	0	3.23	37.85	11.61	1495.19
3	6	3.50	38.16	11.89	1616.49
4	0	3.75	38.32	12.11	1610.97
4	6	4.00	38.44	12.28	1692.44
5	0	4.25	38.54	12.41	1776.71
5	6	4.49	38.61	12.52	1863.82
6	0	4.73	38.67	12.62	1953.82
6	6	4.97	38.72	12.71	2046.77
7	0	5.22	38.76	12.79	2142.72
7	6	5.46	38.80	12.86	2241.70
8	0	5.70	38.83	12.93	2343.78
8	6	5.95	38.86	12.99	2449.00
9	0	6.19	38.89	13.05	2557.41
9	6	6.44	38.92	13.11	2669.06
9	7.30	6.49	38.92	13.13	2693.97

Tank Full, Sounding= 9'-7-1/4" Capacity= 11659 Gals.

Low Point of Tank = 1'-3-1/2" Abv. Bottom of Keel

Zero Sounding = 0'-1-1/8" Abv. Low Point of Tank

* Indicates Break Point in Tank Elevation

Capacity Table		4-23-2-W, Port											SW Ballast, Frs 23-34		T-AGOS 13	
Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)			
	0	1	2	3	4	5	6	7	8	9	10	11				
0	2	4	8	12	21	34	51	73	99	129	163	201	0			
1	245	293	346	404	467	534	607	684	766	852	943	1038	1			
2	1136	1239	1345	1455	1569	1683	1802	1922	2043	2165	2288	2411	2			
3	2536	2661	2788	2915	3043	3172	3302	3432	3562	3693	3824	3956	3			
4	4088	4220	4353	4486	4620	4754	4888	5023	5158	5294	5429	5566	4			
5	5703	5840	5977	6115	6254	6392	6531	6671	6811	6951	7092	7233	5			
6	7374	7516	7659	7801	7944	8088	8232	8376	8521	8666	8811	8957	6			
7	9103	9250	9397	9544	9692	9840	9989	10138	10287	10437	10587	10738	7			
8	10889	11040	11192	11344	11497	11650	11803	11957					8			
Tank Full, Sounding= 8'-7-3/8" Capacity= 12004 Gals. Low Point of Tank = 1'-3-1/2" Abv. Bottom of Keel Zero Sounding = 0'-1-3/4" Abv. Low Point of Tank																

SHIP: T-AGOS 13
4-23-2-W, Port

Dwg. No. 53711-085-6233618
SW Ballast, Frs 23-34

SOUNDING FEET INCHES		VCG	LCG(+fwd)	TCG	INERTIA
0	0	1.39	29.00	8.28	0.19
0	6	1.77	33.21	8.91	17.42
1	0	2.13	35.58	9.55	132.56
1	6	2.47	36.60	10.25	463.35
2	0	2.81	37.22	10.93	956.59
2	6	3.14	37.73	11.49	1478.77
3	0	3.44	38.10	11.85	1604.97
3	6	3.73	38.38	12.08	1748.46
4	0	4.01	38.58	12.25	1843.29
4	6	4.29	38.72	12.38	1941.57
5	0	4.56	38.83	12.49	2043.38
5	6	4.83	38.91	12.59	2148.77
6	0	5.10	38.98	12.67	2257.81
6	6	5.37	39.03	12.75	2370.56
7	0	5.64	39.08	12.82	2487.08
7	6	5.91	39.12	12.89	2607.44
8	0	6.18	39.15	12.95	2731.71
8	6	6.45	39.19	13.01	2859.94
8	7.31	6.51	39.19	13.03	2888.43

Tank Full, Sounding= 8'-7-3/8" Capacity= 12004 Gals.
Low Point of Tank = 1'-3-1/2" Abv. Bottom of Keel
Zero Sounding = 0'-1-3/4" Abv. Low Point of Tank

Capacity Table		4-52-0-W		SW Ballast, Frs 52-60		NOAA Ship Adventurous							
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	704	837	835	1132	1284	1435	1586	1737	1888	2039	2190	2341	0
1	2492	2643	2794	2945	3096	3247	3398	3549	3701	3852	4003	4154	1
2	4305	4456	4607	4758	4909	5060	5211	5362	5513	5664	5815	5967	2
3	6118	6269	6420	6571	6722	6873	7024	7175	7326	7477	7628	7669	3

NOAA Ship Adventurous
4-52-0-W

Dwg. No. ADV-800-004 Rev. -
SW Ballast, Frs 52-60

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	0.48	-15.00	0.00	3267.41
0	6	0.78	-15.00	0.00	5461.33
1	0	1.04	-15.00	0.00	5461.33
1	6	1.29	-15.00	0.00	5461.33
2	0	1.54	-15.00	0.00	5461.33
2	6	1.79	-15.00	0.00	5461.33
3	0	2.03	-15.00	0.00	5461.33
3	6	2.27	-15.00	0.00	5461.33
3	10.25	2.45	-15.00	0.00	5461.33

Tank Full, Sounding =	3'-10 1/4"	Capacity = 7669 Gals.
Low Point of Tank =	0'-0 9/16" Abv. Bottom of Keel	
Zero Sounding =	0'-9 5/16" Abv. Low Point of Tank	

Capacity Table		4-60-0-W		SW Ballast, Frs 60-72				NOAA Ship Adventurous					
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	22	51	91	144	209	287	379	486	607	742	893	1056	0
1	1230	1412	1599	1792	1990	2191	2397	2606	2819	3034	3250	3468	1
2	3686	3906	4128	4349	4571	4793	5014	5236	5458	5680	5901	6123	2
3	6345	6566	6788	7010	7232	7453	7675	7897	8118	8340	8562	8784	3
4	9005	9227	9449	9671	9892	10114	10280						4

NOAA Ship Adventurous
4-60-0-W

Dwg. No. ADV-800-004 Rev. -
SW Ballast, Frs 60-72

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	0.03	-27.94	0.00	42.00
0	6	0.30	-30.13	0.00	1253.00
1	0	0.64	-31.41	0.00	4851.00
1	6	0.95	-32.54	0.00	6223.00
2	0	1.24	-33.29	0.00	7003.50
2	6	1.51	-33.74	0.00	7213.50
3	0	1.78	-34.00	0.00	7213.50
3	6	2.04	-34.17	0.00	7213.50
4	0	2.29	-34.30	0.00	7213.50
4	5.75	2.54	-34.38	0.00	7213.50

Tank Full, Sounding =	4'-5 3/4"	Capacity = 10280 Gals.
Low Point of Tank =	0'-0 9/16"	Abv. Bottom of Keel
Zero Sounding =	0'-0 1/4"	Abv. Low Point of Tank

Capacity
Table 4-86-1-W, Std.

SW Ballast, Frs 86-94

T-AGOS 13

Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	11	16	22	30	38	47	58	69	81	95	109	124	0
1	141	158	176	195	216	237	259	282	313	350	393	443	1
2	497	557	622	693	768	848	933	1023	1118	1218	1322	1432	2
3	1546	1665	1789	1918	2052	2194	2344	2494	2646	2801	2958	3118	3
4	3279	3444	3611	3780	3951	4125	4300	4477	4655	4834	5014	5194	4
5	5376	5558	5740	5924	6109	6294	6480	6667	6854	7043	7228	7370	5
6	7512	7656	7800	7945	8090	8237	8384	8532	8681	8831	8982	9133	6
7	9285	9438	9591	9745	9900	10047	10204	10360	10516	10673	10830	10987	7
8	11146	11303	11460	11617	11774	11931	12089	12246	12403	12560	12717	12874	8
9	13031	13188	13346	13503	13660	13817	13974	14131	14288	14445	14603	14760	9
10	14917	15074	15231	15388	15545	15702	15860	16017	16174	16331	16488	16645	10
11	16802	16960	17117	17274	17431	17588	17745	17902	18059	18217	18374	18531	11
12	18688	18845	19002	19159									12

Tank Full, Sounding=12'-3-7/8"

Capacity= 19303 Gals.

Low Point of Tank = 7'-5-3/8" Abv. Bottom of Keel

Zero Sounding = 0'-3-1/4" Abv. Low Point of Tank

SHIP: T-AGOS 13
4-86-1-W, Stbd.

Dwg. No. 53711-085-6233618
SW Ballast, Frs 86-94

SOUNDING		VCG	LCG(+fwd)	TCG	INERTIA
FEET	INCHES				
0	0	7.61	-75.00	1.09	6.14
0	6	7.93	-75.00	2.28	67.35
1	0	8.26	-75.00	3.50	250.70
1	6	8.59	-75.00	4.72	623.37
2	0	9.03	-76.35	5.21	1333.34
2	6	9.48	-77.95	5.48	2043.84
3	0	9.88	-79.01	5.98	3614.55
3	6	10.26	-79.77	6.71	6250.91
4	0	10.60	-80.40	7.26	6967.00
4	6	10.93	-80.90	7.66	8217.10
5	0	11.24	-81.27	7.98	8890.58
5	6	11.53	-81.53	8.25	9602.11
5	9.9				4172.45
6	0	11.30	-81.70	8.56	4320.82
6	6	12.02	-81.81	3.97	4767.28
7	0	12.26	-81.91	9.34	5228.22
7	6	12.51	-82.00	9.67	5615.39
8	0	12.76	-82.00	9.96	5712.31
8	6	13.01	-82.15	10.21	5712.31
9	0	13.26	-82.20	10.42	5712.31
9	6	13.51	-82.25	10.60	5712.31
10	0	13.76	-82.30	10.76	5712.31
10	6	14.01	-82.34	10.90	5712.31
11	0	14.26	-82.37	11.02	5712.31
11	6	14.51	-82.40	11.14	5712.31
12	0	14.76	-82.43	11.24	5712.31
12	1.91	14.93	-82.45	11.30	5712.31

Tank Full, Sounding= 12'-3-7/8" Capacity= 19303 Gals.
Low Point of Tank = 7'-5-3/8" Abv. Bottom of Keel
Zero Sounding = 0'-3-1/4" Abv. Low Point of Tank

Capacity Table 4-86-2-W, Port		SW Ballast, Frs 86-94											T-AGOS 13	
Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)	
	0	1	2	3	4	5	6	7	8	9	10	11		
0	11	16	22	30	38	47	58	69	81	95	109	124	0	
1	141	158	176	195	216	237	259	282	313	350	393	443	1	
2	497	557	622	693	768	848	933	1023	1117	1215	1318	1426	2	
3	1538	1656	1778	1900	2026	2159	2302	2443	2585	2730	2878	3028	3	
4	3180	3335	3492	3651	3813	3977	4143	4310	4479	4648	4818	4988	4	
5	5160	5332	5506	5679	5854	6030	6206	6383	6561	6740	6920	7100	5	
6	7282	7464	7646	7830	8015	8200	8386	8573	8760	8949	9138	9328	6	
7	9519	9710	9902	10095	10289	10475	10669	10864	11060	11255	11450	11646	7	
8	11844	12040	12236	12431	12627	12823	13019	13215	13411	13606	13802	13998	8	
9	14194	14390	14586	14781	14977	15173	15369	15565	15760	15956	16152	16348	9	
10	16544	16740	16935	17131	17327	17523	17719	17915	18110	18306	18502	18698	10	
11	18894	19090	19285	19481	19677	19873	20069	20265	20460	20656	20852	21048	11	
12	21244	21440	21635	21831									12	

Tank Full, Sounding= 12'-3-7/8" Capacity= 22010 Gal.

Low Point of Tank = 7'-5-3/8" Abv. Bottom of Keel

Zero Sounding = 0'-3-1/4" Abv. Low Point of Tank

SHIP: T-AGOS 13
4-86-2-W, Port

Dwg. No. 53711-085-6233618
SW Ballast, Frs 86-94

SOUNDING		VCG	LCG(+fwd)	TCG	INERTIA
FEET	INCHES				
0	0	7.61	-75.00	1.09	6.14
0	6	7.93	-75.00	2.28	67.35
1	0	8.26	-75.00	3.50	250.70
1	6	8.59	-75.00	4.72	623.37
2	0	9.03	-76.35	5.21	1333.34
2	6	9.48	-77.95	5.48	2043.84
3	0	9.87	-78.97	6.00	3532.14
3	6	10.24	-79.62	6.80	5616.40
4	0	10.58	-80.14	7.42	6179.52
4	6	10.91	-80.60	7.87	7326.22
5	0	11.22	-80.95	8.23	7940.97
5	6	11.51	-81.20	8.52	8591.67
6	0	11.80	-81.39	8.77	9279.43
6	6	12.09	-81.54	8.99	10005.34
7	0	12.37	-81.66	9.19	10744.52
7	6	12.66	-81.76	9.38	11357.92
8	0	12.94	-81.85	9.54	11509.91
8	6	13.21	-81.92	9.68	11509.91
9	0	13.48	-81.98	9.79	11509.91
9	6	13.75	-82.04	9.89	11509.91
10	0	14.01	-82.08	9.97	11509.91
10	6	14.27	-82.12	10.04	11509.91
11	0	14.53	-82.15	10.11	11509.91
11	6	14.79	-82.18	10.16	11509.91
12	0	15.05	-82.21	10.21	11509.91
12	3.91	15.22	-82.22	10.24	11509.91

Tank Full. Sounding=12'-3-7 8" Capacity= 22010 Gals.
Low Point of Tank = 7'-5-3/8" Abv. Bottom of Keel
Zero Sounding = 0'-3-1/4" Abv. Low Point of Tank

Capacity Table		3-94-1-W, 3-94-2-W P/S				Aft Peak Ballast, Frs 94-Stern				NOAA Ship Adventurous			
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	5	9	14	19	25	32	42	58	79	107	140	178	0
1	222	271	327	391	461	536	621	715	817	930	1052	1175	1
2	1301	1426	1552	1679	1739	1891	1990	2090	2191	2294	2411	2548	2
3	2686	2826	2967	3110	3255	3401	3549	3699	3851	4004	4131	4226	3
4	4322	4421	4521	4623	4727	4833	4939	5048	5157	5268	5380	5493	4
5	5608	5723	5838	5954	6075	6200	6325	6451	6576	6701	6827	6951	5
6	7075	7200	7323	7448	7571	7694	7816	7939	8061	8183	8305	8426	6
7	8547	8669	8789	8909	9029	9149	9269	9388	9507	9625	9743	9861	7
8	9979	10096	10213	10330	10439	10564	10680	10796	10911	11026			8
Tank Full, Sounding = 8'-9-1/2" Capacity = 11026 Gals. Low Point of Tank = 11'-0-3/8" Abv. Bottom of Keel Zero Sounding = 0'-2-5/8" Abv. Low Point of Tank													

NOAA Ship Adventurous
3-94-1-W, 3-94-2-W P/S

Dwg. No. ADV-800-004 Rev. -
Aft Peak Ballast, Frs 94-Stern

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	11.16	-91.00	1.38	6.86
0	6	11.50	-91.11	3.45	130.43
1	0	11.95	-93.08	4.54	976.07
1	6	12.32	-94.11	6.13	3032.93
2	0	12.68	-95.54	6.99	4529.98
2	3.54				3984.48
2	6	12.96	-96.30	7.49	4236.82
3	0	13.24	-97.12	7.86	6000.73
3	6	13.55	-97.92	8.14	6959.92
3	9.54				4478.93
4	0	13.80	-98.42	8.49	4792.13
4	6	14.01	-98.79	8.94	5452.04
5	0	14.25	-99.10	9.38	5926.01
5	6	14.51	-99.40	9.75	6655.98
6	0	14.77	-99.68	10.04	6574.66
6	6	15.03	-99.90	10.28	6427.54
7	0	15.28	-100.07	10.49	6280.52
7	6	15.54	-100.21	10.68	6133.60
8	0	15.79	-100.32	10.85	5986.78
8	6	16.04	-100.42	11.01	5840.09
8	9.54	16.19	-100.46	11.09	5753.57

Tank Full, Sounding =	8'-9-1/2"	Capacity = 11297 Gals.
Low Point of Tank =	11'-0-3/8"	Abv. Bottom of Keel
Zero Sounding =	0'-2-5/8"	Abv. Low Point of Tank

Capacity Table		4-6-1-F, 4-6-2-F P/S										Fuel Oil, Frs 6-14		T-AGOS 13	
Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)		
	0	1	2	3	4	5	6	7	8	9	10	11			
0	3	8	15	22	30	38	48	58	68	80	92	104	0		
1	118	132	146	162	178	195	213	232	251	271	292	314	1		
2	337	360	384	409	434	460	488	515	544	573	604	635	2		
3	666	699	732	766	801	836	871	906	941	977	1014	1052	3		
4	1091	1130	1170	1211	1253	1295	1339	1378	1413	1449	1486	1524	4		
5	1562	1602	1642	1683	1724	1767	1810	1854	1898	1943	1989	2036	5		
6	2084	2133	2182	2232	2283	2334	2387	2440	2493	2552	2616	2682	6		
7	2748	2815	2883	2951	3021	3090	3161	3232	3304	3377	3451	3527	7		
8	3604	3681	3759	3838	3917	3997	4078	4159	4241	4323	4406	4492	8		
9	4576	4661	4746	4831	4916	5002	5088	5175	5262	5349	5437	5525	9		
10	5591	5636	5681	5727	5773	5820	5867	5914	5961	6009	6058	6106	10		
11	6155	6204	6254	6303	6353	6404	6455	6506	6557	6609	6661	6713	11		
12	6766	6819	6872	6926	6980	7034	7089	7144	7199	7254	7310	7366	12		
13	7423	7480	7537	7595	7652	7711	7769	7828	7887	7946	8006	8066	13		
14	8127	8187	8248	8310	8372	8434	8496	8559	8622	8685	8749	8810	14		
15	8874	8939	9004	9069	9134	9200	9266	9332	9398	9465	9532	9600	15		
16	9668	9736	9804	9873	9942	10011	10080	10150	10220	10291	10361	10432	16		
17	10504	10575	10647	10720	10792	10865	10938	11011	11085	11159	11234	11308	17		
18	11383	11458	11534	11610	11686	11762	11839	11916	11993	12071	12149	12227	18		
19	12305	12384	12463	12543	12622	12702	12783	12863	12944	13025	13107	13189	19		
20	13271	13353	13436	13519	13602	13686	13769	13854	13931				20		
Tank 95% Full, Sounding= 19'-11-3/4" Capacity= 13248 Gals. Tank Full, Sounding= 20'-8-1/4" Capacity= 13945 Gals. Low Point of Tank = 0'-0-9/16" Abv. Bottom of Keel Zero Sounding = 0'-0-1/2" Abv. Low Point of Tank															

SHIP: T-AGOS 13
4-6-1-F, 4-6-2-F P/S

Dwg. No. 53711-085-6233618
Fuel Oil, Frs 6-14

SOUNDING FEET INCHES		VCG	LCG(+fwd)	TCG	INERTIA
0	0	0.07	74.48	0.35	0.44
0	6	0.35	74.57	0.50	2.24
1	0	0.65	74.62	0.66	6.42
1	6	0.96	74.69	0.82	13.99
2	0	1.29	74.81	0.99	25.98
2	6	1.62	74.93	1.15	43.43
3	0	1.95	75.02	1.31	67.39
3	6	2.27	75.09	1.47	88.94
4	0	2.59	75.11	1.63	129.81
4	6	2.91	75.14	1.79	179.78
5	0	3.19	75.04	1.93	203.03
5	6	3.48	74.97	2.09	270.55
6	0	3.80	74.93	2.27	347.94
6	6	4.12	74.91	2.45	436.35
7	0	4.48	74.95	2.64	602.74
7	6	4.85	75.03	2.83	717.36
8	0	5.22	75.10	3.00	830.56
8	6	5.58	75.17	3.16	936.36
9	0	5.94	75.24	3.31	1041.48
9	6	6.28	75.31	3.45	1107.83
9	11.5				522.24
10	0	6.60	75.35	3.57	525.17
10	6	6.77	75.28	3.71	560.89
11	0	6.97	75.21	3.85	597.37
11	6	7.17	75.15	3.98	634.48
12	0	7.38	75.11	4.12	673.23
12	6	7.61	75.07	4.25	713.68
13	0	7.84	75.03	4.37	755.89
13	6	8.09	75.00	4.50	799.94
14	0	8.34	74.98	4.62	845.88
14	6	8.61	74.97	4.74	892.56
15	0	8.87	74.95	4.86	939.23
15	6	9.15	74.94	4.98	986.01
16	0	9.42	74.94	5.09	1034.75
16	6	9.71	74.94	5.20	1085.37
17	0	10.00	74.94	5.31	1137.88
17	6	10.29	74.94	5.41	1192.33
18	0	10.58	74.95	5.52	1248.76
18	6	10.88	74.95	5.62	1307.24
19	0	11.18	74.96	5.72	1367.82
19	6	11.49	74.97	5.82	1430.54
20	0	11.79	74.98	5.91	1495.47
20	6	12.10	75.00	6.01	1562.64
20	8.75	12.21	75.01	6.04	733.93

Tank 95% Full, Sounding= 19'-11-3/4" Capacity= 13248 Gals.
 Tank Full, Sounding= 20'-8-1/4" Capacity= 13945 Gals.
 Low Point of Tank = 0'-0-9/16" Abv. Bottom of Keel
 Zero Sounding = 0'-0-1/2" Abv. Low Point of Tank

Capacity Table 4-14-1-F, 4-14-2-F P/S				Fuel Oil, Frs 14-23								T-AGOS 13	
Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	6	19	34	50	69	90	113	138	165	193	224	257	0
1	292	329	367	408	451	496	542	591	642	695	749	806	1
2	865	925	988	1053	1119	1188	1259	1331	1406	1483	1561	1642	2
3	1724	1809	1896	1984	2075	2167	2262	2358	2457	2557	2660	2765	3
4	2871	2980	3090	3202	3317	3433	3552	3672	3795	3919	4046	4174	4
5	4303	4434	4567	4701	4836	4974	5113	5253	5395	5539	5684	5831	5
6	5977	6125	6274	6424	6574	6724	6875	7027	7179	7331	7484	7638	6
7	7792	7947	8102	8257	8413	8569	8726	8883	9041	9199	9357	9516	7
8	9675	9834	9993	10153	10314	10474	10635	10797	10958	11120	11283	11446	8
9	11609	11772	11936	12100	12264	12429	12594	12760	12926	13092	13258	13425	9
10	13549	13629	13710	13791	13873	13954	14037	14119	14202	14285	14369	14453	10
11	14537	14622	14707	14792	14878	14964	15050	15137	15224	15311	15399	15487	11
12	15575	15664	15753	15843	15932	16023	16113	16204	16295	16387	16479	16571	12
13	16663	16758	16851	16944	17038	17132	17227	17321	17428	17523	17619	17714	13
14	17810	17906	18003	18099	18195	18292	18389	18487	18584	18682	18780	18878	14
15	18976	19075	19174	19272	19372	19471	19570	19670	19770	19870	19971	20071	15
16	20172	20273	20374	20475	20577	20678	20780	20882	20985	21087	21190	21293	16
17	21396	21499	21603	21706	21810	21914	22018	22123	22228	22332	22438	22543	17
18	22648	22754	22860	22966	23072	23179	23285	23392	23499	23606	23714	23822	18
19	23929	24037	24146	24254	24363	24472	24581	24690	24799	24909	25019	25129	19
20	25239	25349	25460	25571	25682	25793							20
Tank 95% Full, Sounding= 19'-5-1/2" Capacity= 24533 Gals. Tank Full, Sounding= 20'-5-1/4" Capacity= 25824 Gals. Low Point of Tank = 0'-0-9/16" Abv. Bottom of Keel Zero Sounding = 0'-0-1/2" Abv. Low Point of Tank													

SHIP: T-AGOS 13
4-14-1-F, 4-14-2-F P/S

Dwg. No. 53711-085-6233618
Fuel Oil, Frs 14-23

SOUNDING FEET INCHES		VCG	LCG(+fwd)	TCG	INERTIA
0	0	0.07	59.95	0.52	1.96
0	6	0.35	59.57	0.84	16.46
1	0	0.66	59.39	1.19	57.22
1	6	0.98	59.28	1.56	137.98
2	0	1.30	59.20	1.93	272.44
2	6	1.63	59.15	2.31	474.34
3	0	1.96	59.11	2.68	757.40
3	6	2.29	59.09	3.06	1135.35
4	0	2.62	59.06	3.44	1621.91
4	6	2.95	59.04	3.82	2230.80
5	0	3.28	59.03	4.20	2845.35
5	6	3.61	59.04	4.55	3426.26
6	0	3.93	59.06	4.88	4030.21
6	6	4.24	59.09	5.16	4233.35
7	0	4.55	59.12	5.39	4448.13
7	6	4.85	59.15	5.59	4661.47
8	0	5.14	59.18	5.76	4844.27
8	6	5.43	59.20	5.91	5031.83
9	0	5.71	59.23	6.05	5224.23
9	6	6.00	59.24	6.17	5421.52
9	11				587.68
10	0	6.27	59.26	6.29	591.78
10	6	6.41	59.25	6.49	641.83
11	0	6.56	59.24	6.68	694.34
11	6	6.73	59.23	6.86	749.38
12	0	6.90	59.22	7.04	807.01
12	6	7.08	59.21	7.21	867.29
13	0	7.27	59.21	7.38	930.29
13	6	7.47	59.20	7.55	988.41
14	0	7.67	59.20	7.71	1034.62
14	6	7.88	59.20	7.86	1075.82
15	0	8.10	59.19	8.01	1116.35
15	6	8.32	59.19	8.15	1157.79
16	0	8.54	59.19	8.29	1200.14
16	6	8.77	59.20	8.42	1243.41
17	0	9.00	59.20	8.54	1287.63
17	6	9.24	59.20	8.66	1332.80
18	0	9.48	59.20	8.78	1378.95
18	6	9.72	59.21	8.90	1426.08
19	0	9.97	59.21	9.01	1474.20
19	6	10.22	59.21	9.12	1523.34
20	0	10.47	59.22	9.22	1573.51
20	5.30	10.69	59.22	9.31	1210.23

Tank 95% Full, Sounding= 19'-5-1/2" Capacity= 24533 Gals.
 Tank Full, Sounding= 20'-5-1/4" Capacity= 25824 Gals.
 Low Point of Tank = 0'-0-9/16" Abv. Bottom of Keel
 Zero Sounding = 0'-0-1/2" Abv. Low Point of Tank

Capacity Table		4-52-1-F, 4-52-2-F, P/S					Fuel Oil, Frs 52-60				NOAA Ship Adventurous			
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)	
	0	1	2	3	4	5	6	7	8	9	10	11		
0	5	16	33	57	86	121	162	209	263	322	387	458	0	
1	536	619	709	801	894	987	1080	1173	1266	1359	1451	1544	1	
2	1637	1730	1823	1916	2009	2101	2194	2287	2380	2473	2566	2659	2	
3	2751	2844	2937	3030	3123	3216	3245						3	

NOAA Ship Adventurous
4-52-1-F, 4-52-2-F, P/S

Dwg. No. ADV-800-004 Rev. -
Fuel Oil, Frs 52-60

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	1.02	-15.00	8.27	0.74
0	6	1.35	-15.00	9.51	123.31
1	0	1.69	-15.00	10.74	741.15
1	6	2.05	-15.00	11.70	1143.67
2	0	2.36	-15.00	12.06	1143.67
2	6	2.64	-15.00	12.23	1143.67
3	0	2.91	-15.00	12.34	1143.67
3	5.31	3.14	-15.00	12.40	1143.67

Tank 95% Full, Sounding = 3'-3 5/8" Capacity = 3083 Gals.
 Tank Full, Sounding = 3'-5 5/16" Capacity = 3245 Gals.
 Low Point of Tank = 0'-11 7/8" Abv. Bottom of Keel
 Zero Sounding = 0'-1 3/16" Abv. Low Point of Tank

Capacity Table		4-52-3-F, Stbd.				Fuel Oil Service, Frs 52-60				NOAA Ship Adventurous			
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	4	14	29	47	66	85	104	123	142	162	181	201	0
1	221	241	261	281	302	323	343	364	385	406	428	449	1
2	471	493	515	537	559	582	604	627	650	673	696	719	2
3	743	767	790	814	838	862	887	912	936	961	986	1011	3
4	1036	1062	1088	1113	1139	1165	1191	1217	1244	1271	1297	1324	4
5	1351	1379	1406	1434	1461	1489	1517	1545	1574	1602	1631	1659	5
6	1688	1717	1746	1776	1805	1835	1865	1894	1925	1955	1985	2016	6
7	2046	2077	2108	2139	2170	2202	2233	2266	2298	2330	2363	2396	7
8	2429	2462	2495	2528	2562	2595	2629	2663	2697	2731	2766	2800	8
9	2835	2870	2905	2940	2976	3012	3048	3084	3121	3158	3195	3232	9
10	3269	3307	3344	3382	3420	3459	3497	3535	3573	3611	3650	3688	10
11	3726	3764	3802	3840	3878	3916	3954	3992	4031	4069	4108	4146	11
12	4185	4223	4262	4300	4339	4377	4416	4454	4493	4531	4570	4609	12
13	4647	4686	4724	4763	4802	4840	4879	4918	4956	4995	5034	5073	13
14	5111	5150	5189	5227	5266	5305	5343	5382	5421	5459	5498	5537	14
15	5575	5614	5653	5692	5731	5769	5808	5847	5885	5924	5963	6001	15
16	6040	6079	6117	6156	6195	6234	6272	6311	6350	6388	6427	6466	16
17	6504	6543	6582	6620	6659	6698	6737	6776	6814	6853	6892	6930	17
18	6969	7008	7018										18
Tank 95% Full, Sounding = 17'-4 1/4" Capacity = 6667 Gals.													
Tank Full, Sounding = 18'-1 1/4" Capacity = 7018 Gals.													
Low Point of Tank = 2'-3 3/8" Abv. Bottom of Keel													
Zero Sounding = 0'-1 1/4" Abv. Low Point of Tank													

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	2.35	-14.72	17.75	0.54
0	6	2.64	-14.97	18.41	11.70
1	0	2.88	-14.98	18.49	13.44
1	6	3.13	-14.99	18.53	15.34
2	0	3.38	-14.99	18.56	17.41
2	6	3.64	-14.99	18.59	19.66
3	0	3.89	-14.99	18.62	22.10
3	6	4.15	-15.00	18.65	24.73
4	0	4.41	-15.00	18.68	27.56
4	6	4.68	-15.00	18.71	30.60
5	0	4.94	-15.00	18.74	33.86
5	6	5.21	-15.00	18.76	37.34
6	0	5.48	-15.00	18.79	41.04
6	6	5.75	-15.00	18.82	45.00
7	0	6.03	-15.00	18.85	49.18
7	6	6.30	-15.00	18.88	53.63
8	0	6.58	-15.00	18.91	58.40
8	6	6.86	-15.00	18.94	63.43
9	0	7.15	-15.00	18.96	68.75
9	6	7.44	-15.00	18.99	74.46
10	0	7.73	-15.00	19.02	80.48
10	6	8.02	-15.00	19.06	85.33
11	0	8.30	-15.00	19.08	85.33
11	6	8.59	-15.00	19.11	85.33
12	0	8.87	-15.00	19.13	85.33
12	6	9.15	-15.00	19.15	85.33
13	0	9.43	-15.00	19.17	85.33
13	6	9.70	-15.00	19.18	85.33
14	0	9.97	-15.00	19.20	85.33
14	6	10.24	-15.00	19.21	85.33
15	0	10.51	-15.00	19.22	85.33
15	6	10.78	-15.00	19.23	85.33
16	0	11.04	-15.00	19.24	85.33
16	6	11.31	-15.00	19.25	85.33
17	0	11.57	-15.00	19.26	85.33
17	6	11.84	-15.00	19.27	85.33
18	0	12.10	-15.00	19.28	85.33
18	1.25	12.15	-15.00	19.28	85.33

Tank 95% Full, Sounding = 17'-4 1/4" Capacity = 6667 Gals.
 Tank Full, Sounding = 18'-1 1/4" Capacity = 7018 Gals.
 Low Point of Tank = 2'-3 3/8" Abv. Bottom of Keel
 Zero Sounding = 0'-1 1/4" Abv. Low Point of Tank

Capacity Table		4-52-4-F, Port				Fuel Oil Service, Frs 52-60				NOAA Ship Adventurous			
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	4	14	29	47	66	85	104	123	142	162	181	201	0
1	221	241	261	281	302	323	343	364	385	406	428	449	1
2	471	493	515	537	559	582	604	627	650	673	696	719	2
3	743	767	790	814	838	862	887	912	936	961	986	1011	3
4	1036	1062	1088	1113	1139	1165	1191	1217	1244	1271	1297	1324	4
5	1351	1379	1406	1484	1461	1489	1517	1545	1574	1602	1631	1659	5
6	1688	1717	1746	1776	1805	1835	1865	1894	1925	1955	1985	2016	6
7	2046	2077	2108	2139	2170	2202	2233	2266	2298	2330	2363	2396	7
8	2429	2462	2495	2528	2562	2595	2629	2663	2697	2731	2766	2800	8
9	2835	2870	2905	2940	2976	3012	3048	3084	3121	3158	3195	3232	9
10	3269	3307	3344	3382	3420	3459	3497	3535	3573	3611	3650	3688	10
11	3726	3764	3802	3840	3878	3916	3954	3992	4031	4069	4108	4146	11
12	4185	4223	4262	4300	4339	4377	4416	4454	4493	4531	4570	4609	12
13	4647	4686	4724	4763	4802	4840	4879	4918	4956	4995	5034	5073	13
14	5111	5150	5189	5227	5266	5305	5343	5382	5421	5459	5498	5537	14
15	5575	5614	5653	5692	5731	5769	5808	5847	5885	5924	5963	6001	15
16	6040	6079	6117	6156	6195	6234	6272	6311	6321				16
Tank 95% Full, Sounding = 15'-11 1/8" Capacity = 6005 Gals.													
Tank Full, Sounding = 16'-7 1/4" Capacity = 6321 Gals.													
Low Point of Tank = 2'-3 3/8" Abv. Bottom of Keel													
Zero Sounding = 0'-1 1/4" Abv. Low Point of Tank													

NOAA Ship Adventurous
4-52-4-F, Port

Dwg. No. ADV-800-004 Rev. -
Fuel Oil Service, Frs 52-60

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	2.35	-14.72	-17.75	0.54
0	6	2.64	-14.97	-18.41	11.70
1	0	2.88	-14.98	-18.49	13.44
1	6	3.13	-14.99	-18.53	15.34
2	0	3.38	-14.99	-18.56	17.41
2	6	3.64	-14.99	-18.59	19.66
3	0	3.89	-14.99	-18.62	22.10
3	6	4.15	-15.00	-18.65	24.73
4	0	4.41	-15.00	-18.68	27.56
4	6	4.68	-15.00	-18.71	30.60
5	0	4.94	-15.00	-18.74	33.86
5	6	5.21	-15.00	-18.76	37.34
6	0	5.48	-15.00	-18.79	41.04
6	6	5.75	-15.00	-18.82	45.00
7	0	6.03	-15.00	-18.85	49.18
7	6	6.30	-15.00	-18.88	53.63
8	0	6.58	-15.00	-18.91	58.40
8	6	6.86	-15.00	-18.94	63.43
9	0	7.15	-15.00	-18.96	68.75
9	6	7.44	-15.00	-18.99	74.46
10	0	7.73	-15.00	-19.12	80.48
10	6	8.02	-15.00	-19.06	85.33
11	0	8.30	-15.00	-19.08	85.33
11	6	8.59	-15.00	-19.11	85.33
12	0	8.87	-15.00	-19.13	85.33
12	6	9.15	-15.00	-19.15	85.33
13	0	9.43	-15.00	-19.17	85.33
13	6	9.70	-15.00	-19.18	85.33
14	0	9.97	-15.00	-19.20	85.33
14	6	10.24	-15.00	-19.21	85.33
15	0	10.51	-15.00	-19.22	85.33
15	6	10.78	-15.00	-19.23	85.33
16	0	11.04	-15.00	-19.24	85.33
16	6	11.31	-15.00	-19.25	85.33
16	7.25	11.36	-15.00	-19.25	85.33

Tank 95% Full, Sounding = 15'-11 1/8" Capacity = 6005 Gals.
 Tank Full, Sounding = 16'-7 1/4" Capacity = 6321 Gals.
 Low Point of Tank = 2'-3 3/8" Abv. Bottom of Keel
 Zero Sounding = 0'-1 1/4" Abv. Low Point of Tank

Capacity Table		4-60-1-F, Stbd.				Fuel Oil, Frs 60-72				NOAA Ship Adventurous			
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	6	15	29	48	73	103	140	184	234	291	354	426	0
1	505	593	689	790	898	1012	1131	1256	1386	1521	1658	1800	1
2	1944	2091	2240	2391	2544	2699	2856	3013	3171	3330	3490	3650	2
3	3812	3973	4135	4297	4459	4622	4769	4794	4820	4845	4870	4896	3
4	4922	4948	4974	5001	5027	5054	5081	5108	5136	5163	5191	5219	4
5	5247	5276	5304	5333	5362	5391	5420	5450	5479	5509	5539	5570	5
6	5600	5631	5662	5693	5724	5755	5787	5819	5851	5883	5915	5948	6
7	5980	6013	6046	6080	6113	6147	6181	6215	6249	6283	6318	6353	7
8	6388	6423	6458	6494	6530	6566	6602	6638	6675	6712	6748	6786	8
9	6823	6860	6898	6936	6974	7012	7051	7089	7128	7167	7206	7246	9
10	7285	7325	7365	7405	7445	7486	7527	7568	7609	7650	7691	7733	10
11	7775	7817	7859	7902	7944	7987	8030	8073	8116	8159	8202	8245	11
12	8288	8331	8374	8417	8460	8503	8546	8589	8632	8675	8718	8761	12
13	8804	8847	8890	8933	8976	9018	9061	9104	9147	9190	9233	9276	13
14	9319	9362	9405	9448	9491	9534	9577	9620	9663	9706	9749	9792	14
15	9835	9878	9921	9964	10007	10050	10093	10136	10179	10222	10265	10308	15
16	10351	10394	10437	10480	10523	10566	10609	10652	10695	10738	10781	10824	16
17	10867	10910	10953	10996	11039	11082	11125	11167	11210	11253	11296	11339	17
18	11382	11425	11468	11511	11554	11597	11640	11683	11726	11769	11812	11847	18
Tank 95% Full, Sounding = 17'-9" Capacity = 11255 Gals.													
Tank Full, Sounding = 18'-10 13/16" Capacity = 11847 Gals.													
Low Point of Tank = 0'-11 7/8" Abv. Bottom of Keel													
Zero Sounding = 0'-1 7/8" Abv. Low Point of Tank													

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	0.96	-27.45	8.18	4.12
0	6	1.31	-29.53	9.25	111.36
1	0	1.66	-30.81	10.31	701.13
1	6	2.00	-31.85	11.26	1715.71
2	0	2.32	-32.75	11.92	2346.72
2	6	2.62	-33.43	12.34	2684.91
3	0	2.91	-33.90	12.62	2903.50
3	4.81	3.13	-34.14	12.77	2973.61
3	6	3.18	-34.20	12.81	18.15
4	0	3.23	-34.31	13.00	18.97
4	6	3.29	-34.42	13.18	23.92
5	0	3.37	-34.53	13.36	26.40
5	6	3.46	-34.64	13.53	30.11
6	0	3.57	-34.74	13.71	33.82
6	6	3.69	-34.84	13.88	37.94
7	0	3.82	-34.94	14.04	41.24
7	6	3.96	-35.03	14.21	46.60
8	0	4.12	-35.13	14.37	50.73
8	6	4.29	-35.22	14.52	56.09
9	0	4.46	-35.30	14.67	61.04
9	6	4.65	-35.39	14.82	67.64
10	0	4.85	-35.47	14.97	73.82
10	6	5.06	-35.55	15.11	80.01
11	0	5.27	-35.63	15.25	86.61
11	6	5.49	-35.70	15.38	91.97
12	0	5.72	-35.77	15.51	94.86
12	6	5.95	-35.84	15.63	94.86
13	0	6.17	-35.90	15.75	94.86
13	6	6.40	-35.96	15.85	94.86
14	0	6.64	-36.02	15.95	94.86
14	6	6.87	-36.07	16.05	94.86
15	0	7.10	-36.12	16.14	94.86
15	6	7.34	-36.17	16.23	94.86
16	0	7.57	-36.22	16.31	94.86
16	6	7.81	-36.26	16.39	94.86
17	0	8.04	-36.30	16.46	94.86
17	6	8.28	-36.34	16.53	94.86
18	0	8.52	-36.38	16.60	94.86
18	6	8.75	-36.41	16.66	94.86
18	10.81	8.97	-36.44	16.72	94.86

Tank 95% Full, Sounding = 17'-9" Capacity = 11255 Gals.
 Tank Full, Sounding = 18'-10 13/16" Capacity = 11847 Gals.
 Low Point of Tank = 0'-11 7/8" Abv. Bottom of Keel
 Zero Sounding = 0'-1 7/8" Abv. Low Point of Tank

Capacity Table		4-60-2-F Port		Fuel Oil, Frs 60-72				NOAA Ship Adventurous					
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	6	15	29	48	73	103	140	184	234	291	354	426	0
1	505	593	689	790	898	1012	1131	1256	1386	1521	1658	1800	1
2	1944	2091	2240	2391	2544	2699	2856	3013	3171	3330	3490	3650	2
3	3812	3973	4135	4297	4459	4622	4769	4794	4820	4845	4870	4896	3
4	4922	4948	4974	5001	5027	5054	5081	5108	5136	5163	5191	5219	4
5	5247	5276	5304	5333	5362	5391	5420	5450	5479	5509	5539	5570	5
6	5600	5631	5662	5693	5724	5755	5787	5819	5851	5883	5915	5948	6
7	5980	6013	6046	6080	6113	6147	6181	6215	6249	6283	6318	6353	7
8	6388	6423	6458	6494	6530	6566	6602	6638	6675	6712	6748	6786	8
9	6823	6860	6898	6936	6974	7012	7051	7089	7128	7167	7206	7246	9
10	7285	7325	7365	7405	7445	7486	7527	7568	7609	7650	7691	7733	10
11	7775	7817	7859	7902	7944	7987	8030	8073	8116	8159	8202	8245	11
12	8288	8331	8374	8417	8460	8503	8546	8589	8632	8675	8718	8761	12
13	8804	8847	8890	8933	8976	9018	9061	9104	9147	9190	9233	9276	13
14	9319	9362	9405	9448	9491	9534	9577	9620	9663	9706	9749	9792	14
15	9835	9878	9921	9964	10007	10050	10093	10136	10179	10222	10265	10308	15
16	10351	10394	10437	10480	10523	10566	10609	10652	10695	10738	10781	10824	16
17	10867	10910	10953	10996	11039	11074							17
Tank 95% Full, Sounding = 16'-4" Capacity = 10520 Gals.													
Tank Full, Sounding = 17'-4 13/16" Capacity = 11074 Gals.													
Low Point of Tank = 0'-11 7/8" Abv. Bottom of Keel													
Zero Sounding = 0'-1 7/8" Abv. Low Point of Tank													

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	0.96	-27.45	-8.18	4.12
0	6	1.31	-29.53	-9.25	111.36
1	0	1.66	-30.81	-10.31	701.13
1	6	2.00	-31.85	-11.26	1715.71
2	0	2.32	-32.75	-11.92	2346.72
2	6	2.62	-33.43	-12.34	2684.91
3	0	2.91	-33.90	-12.62	2903.50
3	4.81	3.13	-34.14	-12.77	2973.61
3	6	3.18	-34.20	-12.81	18.15
4	0	3.23	-34.31	-13.00	18.97
4	6	3.29	-34.42	-13.18	23.92
5	0	3.37	-34.53	-13.36	26.40
5	6	3.46	-34.64	-13.53	30.11
6	0	3.57	-34.74	-13.71	33.82
6	6	3.69	-34.84	-13.88	37.94
7	0	3.82	-34.94	-14.04	41.24
7	6	3.96	-35.03	-14.21	46.60
8	0	4.12	-35.13	-14.37	50.73
8	6	4.29	-35.22	-14.52	56.09
9	0	4.46	-35.30	-14.67	61.04
9	6	4.65	-35.39	-14.82	67.64
10	0	4.85	-35.47	-14.97	73.82
10	6	5.06	-35.55	-15.11	80.01
11	0	5.27	-35.63	-15.25	86.61
11	6	5.49	-35.70	-15.38	91.97
12	0	5.72	-35.77	-15.51	94.86
12	6	5.95	-35.84	-15.63	94.86
13	0	6.17	-35.90	-15.75	94.86
13	6	6.40	-35.96	-15.85	94.86
14	0	6.64	-36.02	-15.95	94.86
14	6	6.87	-36.07	-16.05	94.86
15	0	7.10	-36.12	-16.14	94.86
15	6	7.34	-36.17	-16.23	94.86
16	0	7.57	-36.22	-16.31	94.86
16	6	7.81	-36.26	-16.39	94.86
17	0	8.04	-36.30	-16.46	94.86
17	4.81	8.16	-36.32	-16.49	94.86

Tank 95% Full, Sounding = 16'-4" Capacity = 10520 Gals.
 Tank Full, Sounding = 11'-4 13/16" Capacity = 11074 Gals.
 Low Point of Tank = 0'-11 7/8" Abv. Bottom of Keel
 Zero Sounding = 0'-1 7/8" Abv. Low Point of Tank

Capacity Table		4-72-1-F, Stbd.				Fuel Oil, Frs 72-86				NOAA Ship Adventurous			
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	10	17	26	36	48	62	77	93	111	131	152	175	0
1	200	226	253	283	312	341	370	400	429	458	487	516	1
2	545	574	603	632	661	690	719	748	788	836	890	951	2
3	1018	1091	1170	1255	1347	1445	1549	1659	1767	1877	1994	2118	3
4	2247	2380	2513	2647	2762	2870	2977	3085	3193	3301	3409	3517	4
5	3625	3732	3819	3900	3981	4061	4136	4209	4282	4355	4427	4498	5
6	4570	4644	4721	4800	4880	4962	5046	5132	5219	5309	5400	5493	6
7	5587	5684	5782	5881	5981	6082	6182	6283	6383	6483	6584	6684	7
8	6784	6885	6985	7086	7186	7286	7387	7487	7588	7688	7788	7889	8
9	7989	8089	8190	8290	8391	8491	8591	8692	8792	8892	8993	9093	9
10	9194	9294	9394	9495	9595	9696	9796	9896	9953	9997	10040	10083	10
11	10126	10169	10212	10256	10299	10342	10385	10428	10467	10503	10540	10577	11
12	10613	10650											12
Tank 95% Full, Sounding = 11'-0" Capacity = 10126 Gals. Tank Full, Sounding = 12'-1 1/4" Capacity = 10659 Gals. Low Point of Tank = 1'-3" Abv. Bottom of Keel Zero Sounding = 0'-2 1/4" Abv. Low Point of Tank													

NOAA Ship Adventurous
4-72-1-F, Stbd.

Dwg. No. ADV-800-004 Rev. -
Fuel Oil, Frs 72-86

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	1.36	-47.00	0.85	4.44
0	6	1.68	-47.00	1.92	68.17
1	0	2.01	-47.00	3.01	278.04
1	6	2.33	-47.00	3.93	424.95
2	0	2.61	-47.00	4.32	424.95
2	6	2.87	-47.00	4.52	424.95
3	0	3.27	-48.71	4.23	498.65
3	6	3.76	-51.35	3.99	939.61
3	7.24				1007.08
4	0	4.21	-53.56	4.21	1895.81
4	3.24				1934.15
4	6	4.57	-55.09	4.44	1565.71
5	0	4.86	-56.13	4.51	1565.71
5	1.24				1139.01
5	6	5.09	-56.90	4.63	980.72
6	0	5.29	-57.47	4.76	936.85
6	6	5.51	-58.11	4.84	1075.18
7	0	5.77	-58.82	4.90	1250.92
7	6	6.06	-59.54	4.99	1389.38
8	0	6.33	-60.16	5.06	1389.38
8	6	6.61	-60.67	5.12	1389.38
9	0	6.88	-61.11	5.17	1389.38
9	6	7.15	-61.48	5.21	1389.38
10	0	7.41	-61.80	5.25	1389.38
10	6	7.67	-62.09	5.28	1389.38
10	7.25	7.72	-62.15	5.29	1389.38
11	0	7.81	-62.25	5.22	389.03
11	6	7.94	-62.37	5.15	389.03
11	7.25	7.96	-62.39	5.14	389.03
12	0	8.05	-62.50	5.10	125.00
12	1.25	8.08	-62.58	5.09	125.00

Tank 95% Full, Sounding = 11'-0" Capacity = 10126 Gals.
 Tank Full, Sounding = 12'-1 1/4" Capacity = 10609 Gals.
 Low Point of Tank = 1'-3" Abv. Bottom of Keel
 Zero Sounding = 0'-2 1/4" Abv. Low Point of Tank

Capacity Table		4-72-2-F, Port				Fuel Oil, Frs 72-86				NOAA Ship Adventurous			
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	10	17	26	36	48	62	77	93	111	131	152	175	0
1	200	226	253	283	312	341	370	400	429	458	487	516	1
2	545	574	603	632	661	690	719	748	788	836	890	951	2
3	1018	1091	1170	1255	1347	1445	1549	1659	1776	1898	2027	2162	3
4	2303	2448	2593	2739	2865	2985	3105	3224	3344	3464	3583	3703	4
5	3823	3943	4062	4182	4302	4421	4541	4661	4780	4900	5020	5139	5
6	5229	5382	5508	5634	5763	5894	6026	6160	6296	6434	6573	6714	6
7	6858	7002	7149	7296	7445	7594	7743	7891	8040	8189	8338	8486	7
8	8635	8784	8933	9081	9230	9379	9528	9676	9825	9971	10123	10271	8
9	10420	10569	10718	10867	11015	11164	11313	11462	11610	11759	11908	12057	9
10	12205	12354	12503	12652	12800	12949	13098	13247	13312	13349	13386	13423	10
11	13460	13497	13534	13571	13608	13645	13682	13719	13728				11
Tank 95% Full, Sounding = 10'-5 1/2" Capacity = 13042 Gals.													
Tank Full, Sounding = 11'-7 1/4" Capacity = 13728 Gals.													
Low Point of Tank = 1'-3" Abv. Bottom of Keel													
Zero Sounding = 0'-2 1/4" Abv. Low Point of Tank													

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	1.36	-47.00	-0.85	4.44
0	6	1.68	-47.00	-1.92	68.17
1	0	2.01	-47.00	-3.01	278.04
1	6	2.33	-47.00	-3.93	424.95
2	0	2.61	-47.00	-4.32	424.95
2	6	2.87	-47.00	-4.52	424.95
3	0	3.27	-48.71	-4.23	498.65
3	6	3.76	-51.35	-3.99	939.61
4	0	4.24	-53.45	-4.16	2082.65
4	3.24				2124.75
4	6	4.61	-54.84	-4.36	1703.73
5	0	4.91	-55.76	-4.41	1703.73
5	6	5.19	-56.39	-4.44	1703.73
6	0	5.46	-56.85	-4.47	1703.73
6	6	5.75	-57.34	-4.48	1690.15
7	0	6.05	-57.88	-4.46	1929.55
7	6	6.35	-58.42	-4.49	2139.77
8	0	6.64	-58.87	-4.51	2139.77
8	6	6.93	-59.23	-4.99	2139.77
9	0	7.21	-59.53	-5.06	2139.77
9	6	7.48	-59.78	-5.12	2139.77
10	0	7.75	-60.00	-5.17	2139.77
10	6	8.02	-60.18	-5.21	2139.77
10	7.25	8.08	-60.22	-5.22	2139.77
11	0	8.11	-59.96	-5.18	361.22
11	6	8.18	-59.84	-5.04	361.22
11	7.25	8.20	-59.82	-5.01	361.22

Tank 95% Full, Sounding = 10'-5 1/2" Capacity = 13042 Gals.
 Tank Full, Sounding = 11'-7 1/4" Capacity = 13728 Gals.
 Low Point of Tank = 1'-3" Abv. Bottom of Keel
 Zero Sounding = 0'-2 1/4" Abv. Low Point of Tank

Capacity Table		4-72-3-F, 4-72-4-F, P/S				Fuel Oil, Frs 72-86				NOAA Ship Adventurous			
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	10	15	20	26	33	41	50	60	70	81	93	106	0
1	120	135	150	168	190	215	244	277	313	353	396	443	1
2	494	548	606	668	733	802	873	946	1020	1094	1168	1242	2
3	1318	1395	1473	1555	1637	1721	1806	1893	1982	2073	2166	2260	3
4	2356	2453	2553	2652	2754	2857	2959	3064	3171	3282	3396	3513	4
5	3633	3757	3884	4014	4147	4283	4423	4565	4710	4857	5004	5154	5
6	5304	5455	5608	5762	5917	6073	6231	6389	6549	6710	6872	7036	6
7	7200	7364	7530	7696	7862	8029	8197	8364	8532	8702	8871	9042	7
8	9213	9384	9555	9728	9901	10074	10248	10423	10598	10773	10949	11126	8
9	11303	11443	11583	11650	11717	11784	11851	11919	11987	12055	12123	12191	9
10	12259												10
Tank 95% Full, Sounding = 9'-3" Capacity = 11646 Gals. Tank Full, Sounding = 10'-0" Capacity = 12259 Gals. Low Point of Tank = 2'-7 3/4" Abv. Bottom of Keel Zero Sounding = 0'-4 7/8" Abv. Low Point of Tank													

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	2.92	-47.00	11.16	3.73
0	6	3.25	-47.00	12.20	40.95
1	0	3.59	-47.00	13.24	152.51
1	6	3.97	-48.15	13.54	188.88
2	0	4.41	-50.16	13.45	355.29
2	6	4.80	-51.42	13.83	838.62
3	0	5.14	-52.08	14.18	877.59
3	6	5.45	-52.62	14.32	944.97
4	0	5.77	-53.17	14.41	1108.46
4	6	6.06	-53.45	14.47	1257.47
5	0	6.40	-54.23	14.58	1383.07
5	6	6.73	-54.97	14.60	1643.53
6	0	7.06	-55.70	14.66	1875.92
6	6	7.39	-56.32	14.72	2007.80
7	0	7.70	-56.85	14.78	2159.59
7	6	8.01	-57.29	14.83	2298.05
8	0	8.31	-57.64	14.88	2428.97
8	6	8.60	-57.94	14.94	2565.88
9	0	8.89	-58.19	14.99	2701.89
9	6	9.05	-58.11	15.06	1123.75
10	0	9.18	-57.91	15.12	1123.75

Tank 95% Full, Sounding = 9'-3" Capacity = 11646 Gals.
 Tank Full, Sounding = 10'-0" Capacity = 12259 Gals.
 Low Point of Tank = 2'-7 3/4" Abv. Bottom of Keel
 Zero Sounding = 0'-4 7/8" Abv. Low Point of Tank

Capacity Table		3½-52-1-W, 3½-52-2-W P/S											Potable Water, Frs 52-60		T-AGOS 13	
Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)			
	0	1	2	3	4	5	6	7	8	9	10	11				
0	31	113	195	277	360	442	524	606	689	771	853	935	0			
1	1017	1100	1182	1264	1346	1429	1511	1593	1675	1758	1840	1922	1			
2	2004	2087	2169	2251	2333	2416							2			

SHIP: T-AGOS 13
 3½-52-1-W, 3½-52-2-W P/S

Dwg. No. 53711-085-6233618
 Potable Water, Frs 52-60

SOUNDING		VCG	LCG(+fwd)	TCG	INERTIA
FEET	INCHES				
0	0	6.56	-15.00	4.25	818.83
0	6	6.81	-15.00	4.25	818.83
1	0	7.06	-15.00	4.25	818.83
1	6	7.31	-15.00	4.25	818.83
2	0	7.56	-15.00	4.25	818.83
2	5.32	7.79	-15.00	4.25	818.83

Tank Full, Sounding= 2'-5-3'8" Capacity= 2441 Gals.
 Low Point of Tank = 6'-6-9 16" Abv. Bottom of Keel
 Zero Sounding = 0'-0-3 8" Abv. Low Point of Tank

Capacity Table		2-60-1-F, Stbd.				Lube Oil, Frs 60-63				NOAA Ship Adventurous			
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	5	10	34	49	63	78	92	107	122	136	151	165	0
1	180	194	209	223	238	252	267	281	296	310	325	339	1
2	354	368	383	397	412	426	441	455	470	484	499	513	2
3	528	542	557	571	586	600	615	629	644	658	673	688	3
4	702	717	731	746	760	775	789	804	818	833	847	862	4
5	876	891	905	920	934	949	963	978	992	1007	1021	1036	5
6	1045												6
Tank 95% Full, Sounding = 5'-8" Capacity = 993 Gals.													
Tank Full, Sounding = 5'-11 3/8" Capacity = 1045 Gals.													
Low Point of Tank = 14'-0 9/16" Abv. Bottom of Keel													
Zero Sounding = 0'-0 3/8" Abv. Low Point of Tank													

NOAA Ship Adventurous
2-60-1-F, Stbd.

Dwg. No. ADV-800-004 Rev. -
Lube Oil, Frs 60-63

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	14.06	-26.00	19.50	32.00
0	6	14.31	-26.00	19.50	32.00
1	0	14.56	-26.00	19.50	32.00
1	6	14.81	-26.00	19.50	32.00
2	0	15.06	-26.00	19.50	32.00
2	6	15.31	-26.00	19.50	32.00
3	0	15.56	-26.00	19.50	32.00
3	6	15.81	-26.00	19.50	32.00
4	0	16.06	-26.00	19.50	32.00
4	6	16.31	-26.00	19.50	32.00
5	0	16.56	-26.00	19.50	32.00
5	6	16.81	-26.00	19.50	32.00
5	11.38	17.05	-26.00	19.50	32.00

Tank 95% Full, Sounding = 5'-8" Capacity = 993 Gals.
 Tank Full, Sounding = 5'-11 3/8" Capacity = 1045 Gals.
 Low Point of Tank = 14'-0 9/16" Abv. Bottom of Keel
 Zero Sounding = 0'-0 3/8" Abv. Low Point of Tank

Capacity Table		2-60-2-F, Port				Lube Oil, Frs 60-63				NOAA Ship Adventurous			
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	5	10	34	49	63	78	92	107	122	136	151	165	0
1	180	194	209	223	238	252	267	281	296	310	325	339	1
2	354	368	383	397	412	426	441	455	470	484	499	513	2
3	528	542	557	571	586	600	615	629	644	658	673	688	3
4	702	717	731	746	760	775	784						4

NOAA Ship Adventurous
2-60-2-F, Port

Dwg. No. ADV-800-004 Rev. -
Lube Oil, Frs 60-63

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	14.06	-26.00	-19.50	32.00
0	6	14.31	-26.00	-19.50	32.00
1	0	14.56	-26.00	-19.50	32.00
1	6	14.81	-26.00	-19.50	32.00
2	0	15.06	-26.00	-19.50	32.00
2	6	15.31	-26.00	-19.50	32.00
3	0	15.56	-26.00	-19.50	32.00
3	6	15.81	-26.00	-19.50	32.00
4	0	16.06	-26.00	-19.50	32.00
4	5.38	16.28	-26.00	-19.50	32.00

Tank 95% Full, Sounding = 4'-3" Capacity = 745 Gals.
 Tank Full, Sounding = 4'-5 3/8" Capacity = 784 Gals.
 Low Point of Tank = 14'-0 9/16" Abv. Bottom of Keel
 Zero Sounding = 0'-0 3/8" Abv. Low Point of Tank

Capacity
Table 2-72-0-W

Anti-Roll Tank, Frs 72-77

T-AGOS 13

Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	97	357	617	878	1138	1398	1658	1918	2178	2438	2698	2958	0
1	3218	3478	3738	3998	4258	4519	4779	5039	5299	5559	5819	6079	1
2	6339	6599	6859	7119	7379	7639	7899	8159	8419	8679	8939	9199	2
3	9459	9719	9979	10239	10499	10759	11019	11279	11539	11799	12059	12319	3
4	12579	12839	13099	13359	13619	13879	14140	14400	14660	14920	15180	15440	4
5	15700	15960	16220	16480	16740	17000	17260	17520	17780	18040	18300	18560	5
6	18820	19080	19340	19600	19860	20120	20380	20640	20900	21160	21420	21680	6

Tank Full, Sounding= 6'-11-5/8" Capacity= 21844 Gals.
 Low Point of Tank = 13'-0-9/16" Abv. Bottom of Keel
 Zero Sounding = 0'-0-3/8" Abv. Low Point of Tank

SHIP: T-AGOS 13
2-72-O-W

Dwg. No. 53711-085-6233618
Anti-Roll Tank, Frs 72-77

SOUNDING		VCG	LCG(+fwd)	TCG	INERTIA
FEET	INCHES				
0	0	13.06	-52.00	0.00	66147.08
0	6	13.31	-52.00	0.00	66255.83
1	0	13.56	-52.00	0.00	66255.83
1	6	13.81	-52.00	0.00	66255.83
2	0	14.06	-52.00	0.00	66255.83
2	6	14.31	-52.00	0.00	66255.83
3	0	14.56	-52.00	0.00	66255.83
3	6	14.81	-52.00	0.00	66255.83
4	0	15.06	-52.00	0.00	66255.83
4	6	15.31	-52.00	0.00	66255.83
5	0	15.56	-52.00	0.00	66255.83
5	6	15.81	-52.00	0.00	66255.83
6	0	16.06	-52.00	0.00	66255.83
6	6	16.31	-52.00	0.00	66255.83
7	0.00	16.55	-52.00	0.00	66255.83

Tank Full, Sounding= 6'-11-5/8" Capacity= 21844 Gals.
Low Point of Tank =13'-0-9/16" Abv. Bottom of Keel
Zero Sounding = 0'-0-3/8" Abv. Low Point of Tank

Capacity Table		01-72-2-F, Port				HYDRAULIC FLUID, Frs. 72-74				NOAA Ship Adventurous			
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	0	6	11	17	22	28	34	39	45	50	56	62	0
1	67	73	79	84	90	95	101	107	112	118	123	129	1
2	135	140	146	151	157	163	168						2

NOAA Ship Adventurous
01-72-2-F, PORT

Dwg. No. ADV-800-004 Rev. -
HYDRAULIC FLUID, Frs. 72-74

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	29.64	-48.75	-11.18	6.75
0	6	29.89	-48.75	-11.18	6.75
1	0	30.14	-48.75	-11.18	6.75
1	6	30.39	-48.75	-11.18	6.75
2	0	30.64	-48.75	-11.18	6.75
2	6	30.89	-48.75	-11.18	6.75

Tank 95% Full, Sounding = 2'-4 1/2" Capacity = 160 Gals.
 Tank Full, Sounding = 2'-6" Capacity = 168 Gals.
 Low Point of Tank = 29'-7 5/8" Abv. Bottom of Keel
 Zero Sounding = 0'-0" Abv. Low Point of Tank

Capacity
Table 3-54-2-F

Lube Oil Settling Tank, Frs 54-57 T-AGOS 13

Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	3	12	22	31	40	49	58	67	76	85	94	103	0
1	112	121	130	139	149	158	167	176	185	194	203	212	1
2	221	230	239										2

Tank 95% Full, Sounding= 2'-1-3/8" Capacity= 233 Gals.
 Tank Full, Sounding= 2'-2-5/8" Capacity= 245 Gals.
 Low Point of Tank = 5'-6-9/16" Abv. Bottom of Keel
 Zero Sounding = 0'-0-3/8" Abv. Low Point of Tank

SHIP: T-AGOS 13
3-54-2-F

Dwg. No. 53711-085-6233618
Lube Oil Settling Tank, Frs 54-57

SOUNDING		VCG	LCG(+fwd)	TCG	INERTIA
FEET	INCHES				
0	0	5.56	-14.00	16.25	7.81
0	6	5.81	-14.00	16.25	7.81
1	0	6.06	-14.00	16.25	7.81
1	6	6.31	-14.00	16.25	7.81
2	0	6.56	-14.00	16.25	7.81
2	2.63	6.67	-14.00	16.25	7.81

Tank 95% Full, Sounding= 2'-1-3/8" Capacity= 233 Gals.
Tank Full, Sounding=2'-2-5/8" Capacity= 245 Gals.
Low Point of Tank =5'-6-9/16" Abv. Bottom of Keel
Zero Sounding =0'-0-3/8" Abv. Low Point of Tank

Capacity Table		4-60-3-FF, 4-60-4-FF P/S				Oily Waste, Frs 60-63				NOAA Ship Adventurous			
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	3	7	13	20	27	34	41	48	56	63	70	78	0
1	85	93	100	108	115	123	131	139	147	155	163	171	1
2	179	187	196	204	212	221	229	238	246	255	264	272	2
3	281	290	299	308	317	326	335	345	354	363	373	382	3
4	392	401	411	420	430	440	450	460	470	480	490	500	4
5	510	520	530	541	551	562	572	583	593	604	615	626	5
6	636	647	658	669	680	692	703	714	725	737	748	759	6
7	771	783	794	806	818	830	841	853	866	878	890	902	7
8	915	927	940	952	965	977	990	1003	1016	1028	1041	1054	8
9	1067	1080	1094	1107	1120	1134	1147	1161	1175	1189	1203	1216	9
10	1230	1245	1259	1273	1287	1302	1316	1330	1345	1359	1373	1388	10
11	1402	1416	1430	1445	1459	1473	1487	1502	1516	1531	1545	1559	11
12	1574	1583											12
Tank 95% Full, Sounding = 11'-7 1/8" Capacity = 1503 Gals.													
Tank Full, Sounding = 12'-0 5/8" Capacity = 1583 Gals.													
Low Point of Tank = 2'-3 3/8" Abv. Bottom of Keel													
Zero Sounding = 0'-1 5/8" Abv. Low Point of Tank													

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	2.39	-25.63	17.82	0.44
0	6	2.67	-25.94	18.42	4.42
1	0	2.92	-25.97	18.49	5.07
1	6	3.17	-25.98	18.53	5.79
2	0	3.42	-25.98	18.56	6.57
2	6	3.67	-25.99	18.60	7.42
3	0	3.93	-25.99	18.62	8.34
3	6	4.19	-25.99	18.65	9.33
4	0	4.45	-25.99	18.68	10.40
4	6	4.72	-25.99	18.71	11.55
5	0	4.98	-25.99	18.74	12.77
5	6	5.25	-25.99	18.77	14.09
6	0	5.52	-25.99	18.79	15.48
6	6	5.79	-25.99	18.82	16.97
7	0	6.07	-26.00	18.85	18.55
7	6	6.34	-26.00	18.88	20.23
8	0	6.62	-26.00	18.91	22.03
8	6	6.90	-26.00	18.94	23.92
9	0	7.19	-26.00	18.97	25.93
9	6	7.47	-26.00	19.00	28.08
10	0	7.77	-26.00	19.03	30.35
10	6	8.06	-26.00	19.06	32.00
11	0	8.34	-26.00	19.09	32.00
11	6	8.63	-26.00	19.11	32.00
12	0	8.91	-26.00	19.13	32.00
12	0.63	8.94	-26.00	19.13	32.00

Tank 95% Full, Sounding = 11'-7 1/8" Capacity = 1503 Gals.
 Tank Full, Sounding = 12'-0 5/8" Capacity = 1583 Gals.
 Low Point of Tank = 2'-3 3/8" Abv. Bottom of Keel
 Zero Sounding = 0'-1 5/8" Abv. Low Point of Tank

Capacity Table		2-92-2-W, Port		WASTE WATER, Frs 92-94						NOAA Ship Adventurous					
Sound (Ft.)	Gallons Corresponding to Each Inch of Sounding												Sound (Ft.)		
	0	1	2	3	4	5	6	7	8	9	10	11			
0	1	2	3	5	7	12	18	26	34	43	52	61	0		
1	71	81	90	100	110	119	129	139	148	158	168	177	1		
2	187	197	206	216	226	235	245	255	264	274	284	293	2		
3	303	313	322	332	342	351	361	371	380	390	400	410	3		
4	419	429	439	448	458	468	477	487	497	506	516	526	4		
5	535	545	555	564	574	584	593	603	613	622	632	642	5		
6	651	661	671	680	690	700	709	719	729	738	748	758	6		
7	767	777	787	797	806	816	826	835	845	855	864	874	7		
8	884	893	903	913	922	932	942	951	961	971	980	990	8		
9	1000	1009	1019	1029	1038	1048	1058	1067	1077				9		
Tank Full, Sounding = 9'-8 3/8" Capacity = 1081 Gals. Low Point of Tank = 10'-2 3/4" Abv. Bottom of Keel Zero Sounding = 0'-1 3/8" Abv. Low Point of Tank															

NOAA Ship Adventurous
2-92-2-W, PORT

Dwg. No. ADV-800-004 Rev. -
WASTE WATER, Frs 92-94

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	10.30	-87.00	-0.82	0.55
0	6	10.67	-87.92	-1.52	12.02
1	0	10.99	-88.58	-1.84	21.33
1	6	11.26	-88.77	-1.91	21.33
2	0	11.52	-88.84	-1.94	21.33
2	6	11.78	-88.88	-1.95	21.33
3	0	12.03	-88.90	-1.96	21.33
3	6	12.28	-88.92	-1.97	21.33
4	0	12.53	-88.93	-1.97	21.33
4	6	12.78	-88.94	-1.98	21.33
5	0	13.03	-88.94	-1.98	21.33
5	6	13.28	-88.95	-1.98	21.33
6	0	13.53	-88.95	-1.98	21.33
6	6	13.78	-88.96	-1.98	21.33
7	0	14.03	-88.96	-1.99	21.33
7	6	14.28	-88.96	-1.99	21.33
8	0	14.54	-88.97	-1.99	21.33
8	6	14.79	-88.97	-1.99	21.33
9	0	15.04	-88.97	-1.99	21.33
9	6	15.29	-88.97	-1.99	21.33
9	8.44	15.39	-88.97	-1.99	21.33

Tank Full, Sounding =
Low Point of Tank =
Zero Sounding =

9'-8 3/8" Capacity = 1081 Gals.
10'-2 3/4" Abv. Bottom of Keel
0'-1 3/8" Abv. Low Point of Tank

Capacity
Table 3-50-2-F

PURIFIER SLUDGE FR 50-51

T-AGOS 13

Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	0	6	12	19	25	31	37	44	50	56	62	69	0
1	75	81	87	94	100	106	112						1

SHIP: T-AGOS
3-50-2-F

Dwg. No. 53711-085-6233618
Purifier Sludge, Frs 50-51

SOUNDING		VCG	LCG(+fwd)	TCG	INERTIA
FEET	INCHES				
0	0	4.58	-4.00	9.96	20.833
0	6	4.83	-4.00	9.96	20.833
1	0	5.08	-4.00	9.96	20.833
1	6	5.33	-4.00	9.96	20.833

Tank Full, Sounding = 1'-6" Capacity 112 Gals.
 Tank 95% Full, Sounding = 1'-5" Capacity 106 Gals
 Low Point of Tank 4'-6 15/16" Abv. Bottom of Keel
 Zero Sounding = 0'-0" Abv. Low Point of Tank

Capacity Table 4-34-0-V		Void		Frs 34-40		T-AGOS 13							
Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	8	30	60	97	142	194	254	321	396	478	568	665	0
1	771	885	1000	1117	1233	1349	1465	1581	1697	1813	1929	2045	1
2	2161	2278	2394	2510	2626	2742	2858	2974	3090	3206	3323	3439	2
3	3555	3671	3787	3903	4019	4135	4251	4367	4484	4600	4716	4832	3
4	4948	5064	5180	5296	5412	5529							4

SHIP: T-AGOS 13
4-34-0-V

Dwg. No. 53711-085-6233618
Void Frs 34-40

SOUNDING FEET INCHES		VCG	LCG(+fwd)	TCG	INERTIA
0	0	0.07	22.98	0.00	16.07
0	6	0.37	22.89	0.00	673.56
1	0	0.70	22.86	0.00	3378.58
1	6	1.01	22.92	0.00	4096.00
2	0	1.27	22.94	0.00	4096.00
2	6	1.53	22.96	0.00	4096.00
3	0	1.79	22.97	0.00	4096.00
3	6	2.04	22.97	0.00	4096.00
4	0	2.30	22.98	0.00	4096.00
4	5.50	2.53	22.98	0.00	4096.00

Tank Full, Sounding= 4'-5-1/2" Capacity= 5586 Gals.
Low Point of Tank = 0'-0-9/16" Abv. Bottom of Keel
Zero Sounding = 0'-0-1/2" Abv. Low Point of Tank

Capacity Table 4-34-01-V		Void											Frs 34-52		T-AGOS 13	
Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)			
	0	1	2	3	4	5	6	7	8	9	10	11				
0	3	10	21	34	51	70	92	116	144	174	208	245	0			
1	292	353	436	540	670	824	1004	1208	1437	1690	1968	2271	1			
2	2599	2952	3329	3731	4157	4609	5084	5594	6102	6614	7129	7649	2			
3	8173	8702	9232	9763	10295	10827	11361	11895	12430	12966	13503	14041	3			
4	14580	15119	15660	16201	16743	17286	17593	17685	17778	17872	17967	18063	4			
5	18160	18257	18356	18455	18555	18656	18758	18860	18964	19068	19174	19280	5			
6	19387	19495	19603	19713	19824	19935	20047	20160	20274	20389	20504	20621	6			
7	20738	20856	20976	21095	21216	21338	21460	21584	21708	21833	21959	22086	7			
8	22214	22342	22472	22602	22733	22865	22998	23132	23266	23402	23538	23675	8			
9	23813	23952	24092	24233	24374	24517	24660	24804	24949	25095	25241	25389	9			
10	25537	25687	25837	25988	26139	26292	26446	26600	26755	26912	27069	27227	10			
11	27385	27545	27705	27867	28029	28192	28356	28521	28686	28853	29020	29188	11			
12	29357	29527	29698	29870	29994	30160	30333	30506	30678	30851	31024	31197	12			
13	31370	31542	31715	31888	32061	32234	32407	32579	32752	32925	33098	33271	13			
14	33444	33617	33790	33962	34135	34308	34481	34654	34827	35000	35173	35346	14			
15	35519	35692	35865	36038	36211	36384	36557	36730	36903	37076	37249	37422	15			
16	37595	37768	37941	38114	38287	38460	38633	38806	38979	39152	39325	39498	16			
17	39671	39844	40017	40190	40363	40537	40710	40883	41056	41229	41402	41575	17			
18	41748	41922	42095	42268	42441	42614	42787	42961	43134	43307	43480	43653	18			
19	43827	44000	44173	44346	44519	44693	44866	45039	45212	45386	45559	45732	19			

Tank Full, Sounding= 19'-11-1/2"

Capacity= 45818 Gals.

Low Point of Tank = 0'-0-9/16" Abv. Bottom of Keel

Zero Sounding = 0'-0-1/2" Abv. Low Point of Tank

SHIP: T-AGOS 13
4-34-01-V

Dwg. No. 53711-085-6233618
Void Frs 34-52

SOUNDING		VCG	LCG(+fwd)	TCG	INERTIA
FEET	INCHES				
0	0	0.07	-5.13	0.00	5.81
0	6	0.38	-5.66	0.00	303.16
1	0	0.73	-5.39	0.00	2703.68
1	6	1.20	0.87	0.00	26295.11
2	0	1.61	4.70	0.00	70164.60
2	6	1.97	6.42	0.00	138061.03
3	0	2.31	7.42	0.00	159126.39
3	6	2.60	8.02	0.00	163759.47
4	0	2.87	8.37	0.00	166977.18
4	5.5				41334.78
4	6	3.12	8.58	0.00	52532.65
5	0	3.17	8.62	0.00	55830.78
5	6	3.24	8.65	0.00	59169.50
6	0	3.33	8.70	0.00	62549.07
6	6	3.43	8.74	0.00	65969.74
7	0	3.54	8.79	0.00	69431.75
7	6	3.67	8.83	0.00	72935.38
8	0	3.81	8.88	0.00	76480.86
8	6	3.96	8.93	0.00	80068.45
9	0	4.13	8.99	0.00	83698.42
9	6	4.31	9.04	0.00	87371.00
10	0	4.50	9.09	0.00	91086.46
10	6	4.70	9.14	0.00	94845.04
11	0	4.91	9.20	0.00	98647.01
11	6	5.13	9.25	0.00	102492.62
12	0	5.36	9.30	0.00	106382.11
12	6	5.60	9.34	0.00	108856.35
13	0	5.84	9.39	0.00	108880.84
13	6	6.08	9.44	0.00	108905.34
14	0	6.32	9.49	0.00	108929.86
14	6	6.56	9.53	0.00	108954.38
15	0	6.80	9.57	0.00	108978.91
15	6	7.05	9.60	0.00	109003.45
16	0	7.29	9.64	0.00	109028.01
16	6	7.53	9.67	0.00	109052.57
17	0	7.78	9.70	0.00	109077.14
17	6	8.02	9.73	0.00	109101.73
18	0	8.26	9.76	0.00	109126.32
18	6	8.51	9.79	0.00	109150.93
19	0	8.75	9.82	0.00	109175.54
19	6	9.00	9.84	0.00	109200.17
20	0.00	9.22	9.86	0.00	109222.73

Tank Full, Sounding= 19'-11-1/2" Capacity= 45818 Gals.
Low Point of Tank = 0'-0-9/16" Abv. Bottom of Keel
Zero Sounding = 0'-0-1/2" Abv. Low Point of Tank

Capacity 4-40-0-W
Table

Anti-Roll Dump Tank, Frs 40-50

T-AGOS 13

Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	14	53	106	173	255	352	463	588	728	882	1050	1233	0
1	1425	1618	1812	2005	2199	2392	2586	2779	2973	3166	3360	3553	1
2	3747	3940	4134	4327	4521	4714	4908	5101	5295	5488	5682	5875	2
3	6069	6262	6456	6649	6843	7036	7230	7423	7617	7810	8004	8197	3
4	8391	8584	8778	8971	9165	9358							4

Tank Full, Sounding= 4'-5-1/2" Capacity= 9454 Gals.
 Low Point of Tank = 0'-0-9/16" Abv. Bottom of Keel
 Zero Sounding = 0'-0-1/2" Abv. Low Point of Tank

SHIP: T-AGOS 13
4-40-0-W

Dwg. No. 53711-085-6233618
ANTI-ROLL DUMP Tank, Frs 40-50

SOUNDING FEET INCHES		VCG	LCG(+fwd)	TCG	INERTIA
0	0	0.07	6.98	0.00	29.35
0	6	0.38	6.90	0.00	1552.93
1	0	0.70	6.90	0.00	6826.67
1	6	0.99	6.95	0.00	6826.67
2	0	1.25	6.96	0.00	6826.67
2	6	1.51	6.97	0.00	6826.67
3	0	1.76	6.98	0.00	6826.67
3	6	2.02	6.98	0.00	6826.67
4	0	2.27	6.98	0.00	6826.67
4	5.50	2.50	6.99	0.00	6826.67

Tank Full, Sounding= 4'-5-1/2" Capacity= 9454 Gals.
Low Point of Tank = 0'-0-9/16" Abv. Bottom of Keel
Zero Sounding = 0'-0-1/2" Abv. Low Point of Tank

Capacity Table		WASTE WATER, FRS 23-25											T-AGOS 13
Sound (Ft.)	Gallons Corresponding To Each Inch of Sounding												Sound (Ft.)
	0	1	2	3	4	5	6	7	8	9	10	11	
0	0	5	10	15	19	24	29	34	39	44	48	53	0
1	58	63	68	73	77	82	87	92	97	102	106	111	1
2	116	121	126	131	135	140	145	150	155	160	164	169	2
3	174	179	184	189	193	198	203	208	213	218	223	227	3
4	232	237	242	247	252	256	261	266	271	276	281	285	4
5	290	295	300	305	310	314	319						5

SHIP: T-AGOS 13
3-23-1-W

Dwg. No. 53711-085-6233618
Waste Water, Frs 23-25

SOUNDING		VCG	LCG(+fwd)	TCG	INERTIA
FEET	INCHES				
0	0	4.58	49.00	9.00	2.67
0	6	4.83	49.00	9.00	2.67
1	0	5.08	49.00	9.00	2.67
1	6	5.33	49.00	9.00	2.67
2	0	5.58	49.00	9.00	2.67
2	6	5.83	49.00	9.00	2.67
3	0	6.08	49.00	9.00	2.67
3	6	6.33	49.00	9.00	2.67
4	0	6.58	49.00	9.00	2.67
4	6	6.83	49.00	9.00	2.67
5	0	7.08	49.00	9.00	2.67
5	6	7.33	49.00	9.00	2.67

Tank Full, Sounding = 5'-6" Capacity = 319 Gals
Low Point of Tank = 4'-6 15/16" ABV Bottom of Keel
Zero Sounding = 0'-0" ABV Low Point of Tank

Tank 95% Full, Sounding	= 1'-3/8"	Capacity	= 336 Gals.
Tank Full, Sounding	= 1'-1"	Capacity	= 354 Gals.
Low Point of Tank	= 29' 3-3/4"	Above Bottom of Keel	
Zero Sounding	= 0'-0"	Above Low Point of Tank	

NOAA Ship Adventurous
01-6-1-F

Dwg. No. ADV-800-004 Rev. -
Emer. Diesel Gen. Day Tank

SOUNDING		VCG	LCG	TCG	INERTIA
FEET	INCHES	(ft)	(ft +fwd)	(ft +stbd)	(+ft ⁴)
0	0	29.73	79.00	10.88	17.35
0	6	29.98	79.00	10.88	17.35
1	0	30.23	79.00	10.88	17.35
1	1	30.27	79.00	10.88	17.35

Tank 95% Full, Sounding = 1'-1" Capacity = 336 Gals.
 Tank Full, Sounding = 1'-0 3/8" Capacity = 354 Gals.
 Low Point of Tank = 29'-8 3/4" Abv. Bottom of Keel
 Zero Sounding = 0'-0" Abv. Low Point of Tank

GENERAL NOTES

1. ALL TANKS ARE ASSUMED TO HAVE A STRUCTURAL DEDUCTION FACTOR OF 3 PERCENT.

2. THE FOLLOWING SPECIFIC VOLUMES SHOULD BE USED FOR COMPUTATIONS:

SALT WATER-	261.8 GAL/TON
FRESH WATER-	269.3 GAL/TON
FUEL OIL-	322.0 GAL/TON
LUBE OIL-	291.4 GAL/TON
HYDRAULIC FLUID-	291.4 GAL/TON
ARRAY FLUID-	310.8 GAL/TON
OILY WASTE-	261.8 GAL/TON
SLUDGE-	291.4 GAL/TON

3. REFERENCE POINTS FOR CENTERS OF GRAVITY ARE AS FOLLOWS:

VERTICAL: BOTTOM OF KEEL PLATING AMIDSHIPS (.047' BELOW BASELINE)
LONGITUDINAL: MIDSHIPS, 12" AFT FRAME 48 (+=FWD, - =AFT)
TRANSVERSE: CENTERLINE OF SHIP (+=STBD, -=PORT)

4. UNITS USED FOR TABLES ARE AS FOLLOWS:

VCG:	FEET
LCG:	FEET
TCG:	FEET
MOMENT OF INERTIA:	FEET ⁴

