

ST-0001

Deck cargo	170 Tons
Upper tween deck layer	1800 Tons
Lower tween deck layer	2000 Tons
Hold layer	3200 Tons

- I. Fifty drums of cement. Each drum weighs 600 pounds and is stowed on end. Each drum measures 28 inches in diameter and is 32 inches high.

- II. Two reels of 1 inch diameter wire rope. Each reel contains 3000 linear feet of wire weighing 1.55 pounds per linear foot. The tare weight of each reel is 450 pounds. The reels are stowed on the flat and are 36 inches high.

- III. Twelve pallets of general supplies. Each pallet measures 8'L x 4'W x 3'H. The pallets are stowed singly and weigh 580 pounds each.

- IV. Twelve crates of machine parts and pipe fittings. Each weighs 880 pounds. Each crate measures 8'L x 3'W x 4'H and is stowed singly.

ST-0003

- I. Drill casing - 16 inches in diameter by 30 feet long. Twenty lengths each weighing 1.72 long tons and stowed in a single tier on deck.
- II. Six pallets of oak planking - stowed two pallets high. Each pallet weighs 2.2 long tons. Each pallet is 3.0 feet high.
- III. Crated piping and machine parts - Eight crates each 8'L x 4'W x 3'H. Each crate is stowed singly and weighs 660 pounds.
- IV. Drill pipe - 6 inches in diameter by 30 feet long. One hundred and twenty lengths, each weighing 0.644 long ton. The center of gravity of the pipes is 1.11 feet above the main deck.

ST-0004

- I. Fifty lengths of drill casing - stowed in a block 8 feet high. Each pipe weighs 326 lbs.
- II. Ten crates of valves - stowed 2 high. Each crate is 36" L x 30" W x 15" H and weighs 1020 lbs.
- III. Fourteen containers of dry stores - stowed 2 high. Each container weighs 2 long tons and measures 6'L x 6'W x 6'H.
- IV. Four anchors - on deck. The center of gravity of each anchor is 9" from the deck and each weighs 6120 lbs.

ST-0005

Deck	200 Tons
Upper tween deck layer	2800 Tons
Lower tween deck layer	1000 Tons
Hold layer	4300 Tons

st0006

<u>Item</u>	<u>Tons</u>	<u>LCG-FP</u>

F.O. & SALT WATER	1805	269.0
FRESH WATER	230	303.6
DRY CARGO	7190	267.5
REEFER CARGO	195	354.0
DECK CARGO	155	60.2

Load	200 tons--	-180	feet fwd	of amidships
Discharge	60 tons---	25	feet fwd	of amidships
Discharge	80 tons---	165	feet aft	of amidships
Discharge	40 tons---	230	feet aft	of amidships

ST-0008

No. 1 Second Deck	140
No. 2 Second Deck	80
No. 2 Third Deck	180
No. 2 Tank Top	360
No. 3 Tank Top	380
No. 4 Second Deck	240
No. 4 Third Deck	280
No. 4 Tank Top	470
No. 5 Upper Level Flat	80
No. 5 Third Deck	260
No. 5 Tank Top	410
No. 6 Second Deck	360

st0009

Load 200 tons---	180	feet	fwd	of	amidships
Discharge 60 tons-	25	feet	fwd	of	amidships
Load 80 tons--	165	feet	aft	of	amidships
Load 40 tons--	200	feet	aft	of	amidships

ST-0010

Deck cargo	200 Tons
Upper tween deck layer	2800 Tons
Lower tween deck layer	3000 Tons
Hold layer	2300 Tons

ST-0011

Deck cargo	170 Tons
Upper tween deck layer	2800 Tons
Lower tween deck layer	2000 Tons
Hold layer	3200 Tons

st0012

Load	225 tons--	110 ft fwd of amidships
Discharge	120 tons	37 ft fwd of amidships
Load	125 tons--	30 ft aft of amidships
Load	75 tons--	200 ft aft of amidships

Discharge	120 tons	145 feet	fwd of amidships
Load	160 tons---	87 feet	fwd of amidships
Discharge	85 tons---	50 feet	fwd of amidships
Discharge	100 tons---	30 feet	aft of amidships

ST-0014

Stores	50 Tons
Lube oil	13 Tons
Cargo	2105 Tons
Fuel oil	1035 Tons
Fresh water	150 Tons
Ballast	100 Tons

ST-0015

- I. Two reels of hoisting wire. Each reel is 8 feet in circumference, 4 feet wide and has 3000 feet of wire. Both reels are stowed on the flat. Wire weighs 1.55 pounds per linear foot. The tare weight of each reel is 500 pounds.
- II. Eight pallets of case goods stowed singly. Each pallet is 8'L x 4'W x 4'H and weighs 1 long ton.
- III. Twelve steel containers of cement. Each container weighs 1 1/2 tons. Each container is 8'L x 4'W x 4'H. The containers are stowed singly fore and aft.
- IV. Ten crates of stewards stores. Each crate measures 4'L x 4'W x 3'H and weighs 420 pounds. Each crate is stowed on deck.

st0016

<u>ITEM</u>	<u>TONS</u>	<u>LCG-FP</u>

F.O. & SALT WATER	2824	262.8
FRESH WATER	140	308.0
DRY CARGO	6290	268.5
REEFER CARGO	170	354.0
DECK CARGO	151	58.4

st0017

<u>Item</u>	<u>Tons</u>	<u>LCG-PP</u>

F.O. & SALT WATER	3215	263.2
FRESH WATER	185	312.0
DRY CARGO	7780	261.5
REEFER CARGO	70	350.8
DECK CARGO	155	353.0

- I. Twenty drums of lube oil stowed on end. Each drum weighs 436 pounds. Diameter of drums is 24 inches and their height is 30 inches overall.

- II. General supplies – Twenty six boxes stowed 2 high. Each box weighs 360 pounds and measures 6'L x 3'W x 2'H.

- III. One electric generator weighing 2684 lbs. Stowed so the center of gravity is 3.2 feet above the main deck.

- IV. Casing pipe – Twenty nine each. Each pipe weighs 1.7 long tons. The pipe is stacked 3 high across the main deck. The center of gravity of the 10 casings in the 3rd tier is 3.75 feet; the 9 casings in the second tier is 2.3 feet; the 10 casings in the lower tier is 0.833 foot.

- I. Two danforth mooring anchors. Each anchor weighs 15,750 pounds. The center of gravity is 15 inches above the main deck.
- II. Ninety fathoms of 3-inch diameter wire rope. The weight per linear foot is 18.7 pounds. The center of gravity of the wire is 22 inches above the main deck.
- III. Ten cases of machine parts. Each case measures 6'L x 6'W x 4'H. The total weight of all of the cases is 6000 lbs. Each case is stowed on deck.
- IV. Eight crates of galley stores. Each crate measures 4'L x 3'W x 2.5'H and weighs 380 pounds. Each crate is stowed on deck.

ST-0020

- I. Two reels of hoisting wire. Each reel is 8 feet in circumference and 4 feet wide. Both reels are stowed on the flat and each has 3000 feet of wire. Wire weighs 1.55 pounds per linear foot. Tare weight of each reel is 500 pounds.
- II. Eight pallets of case goods stowed singly. Each pallet is 8'L x 4'W x 4'H and weighs 1 long ton.
- III. Twelve steel containers of cement. Each container weighs 1 1/2 long tons. Each container is 8'L X 4'W 4'H. The containers are stowed singly fore and aft.
- IV. Ten crates of stewards stores. Each crate measures 4'L x 4'W x 3'H and weighs 420 pounds. Each crate is stowed on deck.

st0021

Stores	50	Tons
Lube oil	13	Tons
Cargo	8400	Tons
Fuel oil	3015	Tons
Fresh water	200	Tons
Ballast	450	Tons

ST-0022

No. 1	Main Deck	60
No. 2	Second Deck	90
No. 2	Tank Top	120
No. 3	Second Deck	90
No. 3	Third Deck	250
No. 3	Tank Top	400
No. 4	Second Deck	110
No. 5	Second deck	50
No. 5	Tank Top	480
No. 5	Upper Reefer	90
No. 6	Second Deck	120
No. 7	Third Deck	250

ST-0023

Stores	50 Tons
Lube oil	13 Tons
Cargo	1853 Tons
Fuel oil	1324 Tons
Fresh water	130 Tons
Ballast	370 Tons

<u>ITEM</u>	<u>TONS</u>	<u>LCG-FP</u>

F.O. & SALT WATER	3215	263.2
FRESH WATER	185	312.0
DRY CARGO	7880	263.5
REEFER CARGO	170	350.8
DECK CARGO	155	223.0

ST-0025

Stores 50 Tons

Lube oil 13 Tons

Cargo 8040 Tons

Fuel oil 3115 Tons

Fresh water 200 Tons

ST-0026

Stores	50 Tons
Lube oil	13 Tons
Cargo	3390 Tons
Fuel oil	2580 Tons
Fresh water	175 Tons
Ballast	345 Tons

- I. Motor generator - one unit weighing 4850 pounds. The center of gravity is 32 inches above the main deck.
- II. Fifty drums of cement - each drum weighs 400 pounds and is stowed on end. Each drum is 28 inches in diameter and 32 inches high.
- III. Ten pallets of cased lube oil - each pallet measures 8'L x 4'W x 4'H. Each pallet is stowed on deck and weighs 2.7 long tons.
- IV. Drill collars - Ten lengths each 8" in diameter by 30 feet long, stowed in a single layer on deck. Each length weighs 1.15 long tons.

ST-0028

No. 1 Main Deck	100
No. 1 Third Deck	60
No. 2 Second Deck	90
No. 3 Second Deck	120
No. 3 Third Deck	30
No. 3 Tank Top	230
No. 4 Second Deck	120
No. 5 Upper Level Flat	110
No. 5 Third Deck	140
No. 5 Upper Reefer	90
No. 5 Third Deck Reefer	110
No. 7 Second Deck	240

ST-0029

Stores	50 Tons
Lube oil	13 Tons
Cargo	2345 Tons
Fuel oil	1324 Tons
Fresh water	170 Tons
Ballast	400 Tons

- I. Intermediate drill casing - Ten lengths each 16 inches in diameter. Each length weighs 1.7 long tons. The center of gravity above the main deck of the casing stow is 1.8 feet.
- II. Crated machine parts and assorted pipe fittings – Six crates stowed two high. Each crate is 4'L x 3.5'W x 3'H. Each crate weighs 840 lbs.
- III. Ten each - 55 gallon drums of lube oil stowed on end. Each drum weighs 462 pounds, is 26 inches in diameter and 32 inches high.
- IV. Dry stores - Twelve containers stowed two high. Each container weighs 0.9 long ton and measures 6'L x 4'W x 3'H.

ST-0031

No. 1 Second Deck	80
No. 2 Second Deck	100
No. 2 Third Deck	70
No. 2 Tank Top	340
No. 3 Third Deck	120
No. 3 Tank Top	260
No. 4 Second Deck	70
No. 4 Tank Top	220
No. 5 Second Deck	120
No. 5 Tank Top	380
No. 6 Third Deck	260
No. 7 Second Deck	340

ST-0032

Stores	50 Tons
Lube oil	13 Tons
Cargo	2860 Tons
Fuel oil	1324 Tons
Fresh water	170 Tons
Ballast	400 Tons

ST-0033

Stores 50 Tons

Lube oil 13 Tons

Cargo 5390 Tons

Fuel oil 2890 Tons

Fresh water 275 Tons

Ballast 945 Tons

ST-0034

Stores	50 Tons
Lube oil	13 Tons
Cargo	3035 Tons
Fuel oil	1775 Tons
Fresh water	270 Tons
Ballast	440 Tons

- I. Fifty drums of cement - each drum weighs 400 pounds and is stowed on end. Each drum is 28 inches in diameter and 32 inches high.
- II. Crated piping and valves - Eight crates stowed 2 high. Each crate measures 8'L x 4'W x 2.5'H and weighs 640 pounds.
- III. Stewards stores - Twelve containers measuring 6'H x 6'W x 6'L. Each container weighs 960 pounds. The center of gravity of each container is 30 inches above the main deck.
- IV. Twenty lengths of drill casing - 16 inches in diameter by 30 feet long. Each length weighs 1.72 long tons and is stowed in a single tier on deck.

ST-0037

Stores	50 Tons
Lube oil	13 Tons
Cargo	3450 Tons
Fuel oil	1970 Tons
Fresh water	220 Tons
Ballast	440 Tons

ST-0038

No. 1 Third Deck	80
No. 2 Second Deck	140
No. 2 Tank Top	360
No. 3 Second Deck	40
No. 3 Third Deck	220
No. 3 Tank Top	490
No. 4 Second Deck	80
No. 5 Upper Level Flat	110
No. 5 Third Deck	140
No. 5 Tank Top	550
No. 5 Upper Reefer	85
No. 6 Third Deck	260

- I. One hundred and sixteen lengths of drill pipe. Each pipe weighs 0.644 long ton. The center of gravity is 1.11 feet above the main deck.
- II. Ten containers 8'L x 4'W x 3'H containing assorted pipe fittings and machine parts. Each container weighs 1-1/4 long tons, and the center of gravity of each box is 1.35 feet above the main deck.
- III. Two 90-fathom lengths of 3-inch diameter wire rope coiled on the main deck. Each foot of wire rope weighs 18.7 pounds. The center of gravity of the coil is 27 inches above the main deck.
- IV. Six pallets of oak planking. Each pallet weighs 2-1/2 long tons with a center of gravity of 2.2 feet above the main deck.

ST-0040

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2824	7.5
FRESH WATER	160	21.0
DRY CARGO	7190	27.0
REEFER CARGO	170	29.2
DECK CARGO	155	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		15138

ST-0041

Stores 50 Tons

Lube oil 13 Tons

Cargo 4780 Tons

Fuel oil 1970 Tons

Fresh water 110 Tons

Ballast 390 Tons

No. 1	Second Deck	80
No. 2	Second Deck	140
No. 2	Third Deck	240
No. 2	Tank Top	460
No. 4	Second Deck	180
No. 4	Third Deck	160
No. 4	Tank Top	70
No. 5	Second Deck	320
No. 5	Thrd Dk (Reef)	180
No. 6	Second Deck	220
No. 6	Third Deck	360
No. 7	Second Deck	90
No. 7	Third Deck	50

ST-0043

No. 1 Second Deck	140
No. 2 Second Deck	80
No. 2 Third Deck	260
No. 3 Second Deck	180
No. 3 Third Deck	320
No. 3 Tank Top	480
No. 4 Second Deck	90
No. 4 Tank Top	90
No. 5 Second Deck	260
No. 5 Third Deck	380
No. 5 Tank Top	580
No. 6 Third Deck	360

ST-0045

Stores	50 Tons
Lube oil	13 Tons
Cargo	5880 Tons
Fuel oil	2210 Tons
Fresh water	200 Tons
Ballast	600 Tons

ST-0046

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	3710	7.5
FRESH WATER	115	21.0
DRY CARGO	7815	27.0
REEFER CARGO	175	29.2
DECK CARGO	120	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		9640

ST-0047

Stores	50 Tons
Lube oil	13 Tons
Cargo	7325 Tons
Fuel oil	2210 Tons
Fresh water	200 Tons
Ballast	100 Tons

ST-0048

Deck cargo

350 Tons

Upper tween deck layer

1700 Tons

Lower tween deck layer

2900 Tons

Hold layer

3400 Tons

ST-0049

Deck cargo	350 Tons
Upper tween deck layer	1780 Tons
Lower tween deck layer	1990 Tons
Hold layer	3230 Tons

ST-0051

Deck cargo	190 Tons
Upper tween deck layer	740 Tons
Lower tween deck layer	1420 Tons
Hold layer	2840 Tons

ST-0053

Deck cargo	220 Tons
Upper tween deck layer	1950 Tons
Lower tween deck layer	1300 Tons
Hold layer	2750 Tons

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ST-0054

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	1906	7.5
FRESH WATER	140	21.0
DRY CARGO	4286	27.0
REEFER CARGO	125	29.2
DECK CARGO	140	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		11468

ST-0055

No. 2 Second Deck	140
No. 2 Third Deck	220
No. 2 Tank Top	140
No. 3 Second Deck	180
No. 3 Third Deck	160
No. 3 Tank top	160
No. 4 Second Deck	110
No. 4 Tank Top	420
No. 5 Upper Level Flat	90
No. 5 Third Deck	170
No. 6 Second Deck	180
No. 6 Third Deck	310

ST-0056

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	1906	7.5
FRESH WATER	140	21.0
DRY CARGO	4286	27.0
REEFER CARGO	125	29.2
DECK CARGO	140	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		4157

ST-0057

DB 1 CL	48.2	DB 7 P	94.6
DB 1A CL	81.9	DB 7 S	94.6
DB 4 CL	224.1	DT 2 P	100.7
DB 4 P	128.1	DT 2 S	100.7
DB 4 S	128.1	DT 3 P	86.1
DB 5 CL	196.2	DT 3 S	86.1
DB 5 P	178.0	DT 4 P/S	110.0
DB 5 S	180.0	DT 5 P/S	108.4
DB 6 CL	242.3	DIS/WATER	24.9

ST-0058

Deck cargo	250 Tons
Upper tween deck layer	1520 Tons
Lower tween deck layer	1410 Tons
Hold layer	2070 Tons

ST-0059

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2608	7.5
FRESH WATER	80	21.0
DRY CARGO	5469	27.0
REEFER CARGO	225	29.2
DECK CARGO	113	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		15585

ST-0060

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2824	7.5
FRESH WATER	80	21.0
DRY CARGO	4286	27.0
REEFER CARGO	225	29.2
DECK CARGO	155	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		15585

st0061

<u>Item</u>	<u>Tons</u>	<u>LCG-FP</u>

F.O. & SALT WATER	1805	269.0
FRESH WATER	185	312.0
DRY CARGO	6290	268.5
REEFER CARGO	170	354.5
DECK CARGO	155	223.0

ST-0062

Deck cargo	320 Tons
Upper tween deck layer	1320 Tons
Lower tween deck layer	1010 Tons
Hold layer	1670 Tons

ST-0063

DB 1 CL	48.2	DB 6 CL	242.3
DB 1A CL	81.9	DB 7 P	94.6
DB 3 P	55.6	DB 7 S	94.6
DB 3 S	55.6	DT 3 P	86.1
DB 4 CL	224.1	DT 3 S	86.1
DB 4 P	128.1	DT 4 P/S	120.0
DB 4 S	128.1	DT 5 P/S	108.4
DB 5 CL	196.2		

ST-0064

DB 2 P	71.2	DB 5 P	178.0
DB 2 S	71.2	DB 5 S	180.0
DB 3 CL	220.0	DB 6 CL	242.3
DB 3 P	55.6	DB 6 P	87.0
DB 3 S	55.6	DB 6 S	87.0
DB 4 CL	224.1	DB 7 P	94.6
DB 4 P	128.1	DB 7 S	94.6
DB 4 S	128.1	DT 4 P/S	110.0
DB 5 CL	196.2	DT 5 P/S	108.4

ST-0065

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	3710	7.5
FRESH WATER	115	21.0
DRY CARGO	7815	27.0
REEFER CARGO	175	29.2
DECK CARGO	120	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		17706

ST-0066

Deck cargo	280 Tons
Upper tween deck layer	1320 Tons
Lower tween deck layer	1260 Tons
Hold layer	1420 Tons

ST-0067

DB 1 CL	48.2	DB 6 P	87.0
DB 1A CL	81.9	DB 6 S	87.0
DB 2 P	71.2	DB 7 P	94.6
DB 2 S	71.2	DB 7 S	94.6
DB 4 CL	224.1	DT 3 P	86.1
DB 4 P	128.1	DT 3 S	86.1
DB 4 S	128.1	DT 4 P/S	120.0
DB 5 CL	196.2		

ST-0068

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2824	7.5
FRESH WATER	80	21.0
DRY CARGO	4286	27.0
REEFER CARGO	225	29.2
DECK CARGO	155	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		17604

ST-0069

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2710	7.5
FRESH WATER	115	21.0
DRY CARGO	7815	27.0
REEFER CARGO	175	29.2
DECK CARGO	120	55.0

TOTAL FREE SURFACE MOMENTS 17706
FOR ALL LIQUIDS ON BOARD

ST-0070

Deck cargo	210 Tons
Upper tween deck layer	1220 Tons
Lower tween deck layer	910 Tons
Hold layer	870 Tons

ST-0071

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	3670	7.5
FRESH WATER	140	21.0
DRY CARGO	5965	27.0
REEFER CARGO	265	29.2
DECK CARGO	115	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		20219

st0072

Discharge	170 tons--	150 ft	fwd	of	amidships
Load	220 tons--	100 ft	fwd	of	amidships
Load	160 tons--	75 ft	aft	of	amidships
Discharge	80 tons--	225 ft	aft	of	amidships

ST-0073

Deck cargo	320 Tons
Upper tween deck layer	820 Tons
Lower tween deck layer	910 Tons
Hold layer	270 Tons

ST-0074

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2608	7.5
FRESH WATER	80	21.0
DRY CARGO	5469	25.2
REEFER CARGO	225	29.2
DECK CARGO	113	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		18585

ST-0076

Deck cargo

250 Tons

Upper tween deck layer

1320 Tons

Lower tween deck layer

310 Tons

Hold layer

370 Tons

ST-0077

DB 1 CL	48.2	DB 4 S	128.1
DB 2 P	71.2	DB 5 CL	196.2
DB 2 S	71.2	DB 6 CL	242.3
DB 3 P	55.6	DB 7 P	94.6
DB 3 S	55.6	DB 7 S	94.6
DB 4 CL	224.1	DT 5 P/S	108.4
DB 4 P	128.1		

ST-0078

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2024	7.5
FRESH WATER	160	21.0
DRY CARGO	7090	27.4
REEFER CARGO	170	29.2
DECK CARGO	155	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		15538

st0079

Load 170 tons--165 ft fwd of amidships
Load 150 tons--120 ft fwd of amidships
Load 160 tons--112 ft aft of amidships
Load 155 tons--202 ft aft of amidships

ST-0080

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	1906	7.5
FRESH WATER	140	21.0
DRY CARGO	4826	27.3
REEFER CARGO	125	29.2
DECK CARGO	140	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		14168

st0081

Load	120 tons---	145 feet fwd of amidships
Discharge	160 tons---	38 feet fwd of amidships
Load	85 tons---	35 feet aft of amidships
Discharge	170 tons---	205 feet aft of amidships

st0082

<u>Item</u>	<u>Tons</u>	<u>LCG-FP</u>
F.O. & SALT WATER	3865	280.0
FRESH WATER	140	308.0
DRY CARGO	6200	254.0
REEFER CARGO	265	351.0
DECK CARGO	151	58.4

ST-0083

DB 1 CL	48.2	DB 7 S	94.6
DB 2 P	71.2	DT 2 P	100.0
DB 2 S	71.2	DT 2 S	100.0
DB 3 P	55.6	DT 3 P	86.0
DB 3 S	55.6	DT 3 S	86.0
DB 4 CL	224.1	DT 4 P/S	120.0
DB 5 CL	196.2	DT 5 P/S	108.4
DB 6 CL	242.3	DT 6 P	201.0
DB 7 P	94.6	DT 6 S	201.0

st0084

<u>Item</u>	<u>Tons</u>	<u>LCG-PP</u>

F.O. & SALT WATER	2120	298.0
FRESH WATER	250	297.0
DRY CARGO	9111	264.7
REEFER CARGO	210	350.0
DECK CARGO	95	60.0

ST-0085

DB 1 CL	48.2	DB 7 P	94.6
DB 1A CL	81.9	DB 7 S	94.6
DB 2 P	71.2	DT 1A CL	150.0
DB 2 S	71.2	DT 2 P	50.0
DB 3 CL	227.6	DT 2 S	50.0
DB 3 P	55.6	DT 6 P	201.2
DB 3 S	55.6	DT 6 S	201.2
DB 4 CL	224.1		
DB 4 P	128.1		
DB 4 S	128.1		
DB 5 CL	180.0		
DB 6 CL	242.3		

ST-0086

DB 1 CL	48.2	DB 6 CL	242.3
DB 1A CL	81.9	DB 7 P	94.6
DB 2 P	71.2	DB 7 S	94.6
DB 2 S	71.2	DT 1 CL	125.3
DB 3 CL	227.6	DT 1A CL	257.6
DB 3 P	55.6	DT 2 P	80.0
DB 3 S	55.6	DT 2 S	80.0
DB 4 CL	224.1	DT 6 P	201.2
DB 4 P	128.1	DT 6 S	201.2
DB 4 S	128.1	DT 7 P	128.8
		DT 7 S	128.8

st0087

Load	170 tons--	120 ft	fwd of amidships
Discharge	100 tons-	-28 ft	fwd of amidships
Discharge	70 tons--	122 ft	aft of amidships
Load	200 tons--	163 ft	aft of amidships

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ST-0088

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2608	8.5
FRESH WATER	80	20.0
DRY CARGO	5469	25.5
REEFER CARGO	225	28.2
DECK CARGO	113	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		17531

st0089

Discharge	280 tons--	200 ft	fwd of amidships
Load	150 tons--	150 ft	fwd of amidships
Load	150 tons--	100 ft	fwd of amidships
Discharge	90 tons--	247 ft	aft of amidships

st0090

<u>Item</u>	<u>Tons</u>	<u>LCG-FP</u>
F.O. & SALT WATER	960	294.0
FRESH WATER	150	299.0
DRY CARGO	4880	265.0
REEFER CARGO	200	354.0
DECK CARGO	70	60.0

ST-0091

DB 1 CL	48.2	DB 7 P	94.6
DB 1A CL	81.9	DB 7 S	94.6
DB 2 P	71.2	DT 1 CL	125.3
DB 2 S	71.2	DT 1A CL	257.6
DB 3 CL	227.6	DT 2 P	78.5
DB 3 P	55.6	DT 2 S	78.5
DB 3 S	55.6	DT 6 P	201.2
DB 4 CL	224.1	DT 6 S	201.2
DB 4 P	128.1	DT 7 P	128.8
DB 4 S	128.1	DT 7 S	128.8
DB 6 CL	242.3	DT 8 P	50.5
		DT 8 S	50.5

Load	180 tons---	155 feet fwd of amidships
Discharge	160 tons---	38 feet fwd of amidships
Load	140 tons---	75 feet aft of amidships
Discharge	170 tons---	205 feet aft of amidships

st0094

<u>Item</u>	<u>Tons</u>	<u>LCG-FP</u>
F.O. & SALT WATER	1300	280.5
FRESH WATER	230	298.0
DRY CARGO	8412	260.5
REEFER CARGO	310	355.5
DECK CARGO	150	55.0

ST-0095

DB 2 P	71.2	DB 6 CL	242.3
DB 2 S	71.2	DB 6 P	87.0
DB 3 CL	227.6	DB 6 S	87.0
DB 3 P	55.6	DB 7 P	90.0
DB 3 S	55.6	DB 7 S	90.0
DB 4 CL	224.1	DT 3 P	86.1
DB 4 P	128.1	DT 3 S	86.1
DB 4 S	128.1	DT 6 P	201.2
DB 5 CL	196.2	DT 6 S	201.2
DB 5 P	178.0	DT 4 P/S	100.0
DB 5 S	180.0	DT 5 P/S	108.4
		DIS/WATER	20.0

ST-0096

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2608	8.5
FRESH WATER	80	20.0
DRY CARGO	5469	25.5
REEFER CARGO	225	28.2
DECK CARGO	113	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		18993

ST-0098

DB 2 P	71.2	DB 5 CL	196.2
DB 2 S	71.2	DB 5 P	178.0
DB 3 CL	220.0	DB 5 S	180.0
DB 3 P	55.6	DB 6 CL	242.3
DB 3 S	55.6	DB 6 P	87.0
DB 4 CL	224.1	DB 6 S	87.0
DB 4 P	128.1	DB 7 P	94.6
DB 4 S	128.1	DB 7 S	94.6
		DT 4 P/S	110.0
		DT 5 P/S	108.4

ST-0099

DB 1 CL	48.2	DB 5 CL	180.0
DB 1A CL	81.9	DB 5 P	178.0
DB 2 P	71.2	DB 5 S	180.0
DB 2 S	71.2	DB 6CL	242.3
DB 3 CL	227.6	DB 7 P	94.6
DB 3 P	55.6	DB 7 S	94.6
DB 3 S	55.6	DT 6 P	201.2
DB 4 P	128.1	DT 7 P	128.8
DB 4 S	128.1	DT 7 S	128.8

ST-0100

DB 4 CL 224.1

DB 4 P 128.1

DB 4 S 128.1

DB 5 CL 196.2

DB 5 P 178.0

DB 5 S 180.0

DB 6 CL 200.0

DB 6 P 87.0

DB 6 S 87.0

DT 1A CL 257.6

DT 5 P/S 108.4

ST-0101

No. 1 Second Deck	60
No. 1 Third Deck	70
No. 2 Second Deck	40
No. 2 Tank Top	100
No. 3 Third Deck	60
No. 3 Tank Top	70
No. 4 Second Deck	50
No. 4 Tank Top	80
No. 5 Second Deck	60
No. 5 Tank Top	60
No. 6 Second Deck	100
No. 7 Third Deck	80

st0102

Discharge 240 tons---155 feet fwd of amidships
Discharge 160 tons--- 38 feet fwd of amidships
Load 115 tons--- 35 feet aft of amidships
Discharge 170 tons---205 feet aft of amidships

ST-0103

DB 3 CL	180.0	DT 2 P	80.0
DB 3 P	55.6	DT 2 S	80.0
DB 3 S	55.6	DT 3 P	86.1
DB 4 CL	224.1	DT 3 S	86.1
DB 4 P	128.1	DT 6 P	201.2
DB 4 S	128.1	DT 6 S	201.2
DB 5 CL	180.0		
DB 5 P	178.0		
DB 5	80.0		

ST-0105

No. 1 Second Deck	70
No. 1 Third Deck	70
No. 2 Third Deck	80
No. 2 Tank Top	65
No. 3 Third Deck	55
No. 3 Tank Top	80
No. 4 Second Deck	50
No. 4 Tank Top	90
No. 5 Upper Level Flat	70
No. 5 Tank Top	70
No. 6 Second Deck	80
No. 6 Third Deck	60

ST-0106

DB 1 CL	48.2	DB 5 CL	196.2
DB 1A CL	81.9	DB 6 CL	242.3
DB 2 P	71.2	DB 6 P	87.0
DB 2 S	71.2	DB 6 S	87.0
DB 3 CL	227.6	DB 7 P	94.6
DB 4 CL	224.1	DB 7 S	94.6
DB 4 P	128.1	DT 4 P/S	120.0
DB 4 S	128.1		

ST-0107

No. 1 Third Deck	150
No. 2 Tank Top	100
No. 3 Third Deck	75
No. 3 Tank Top	50
No. 4 Second Deck	80
No. 4 Third Deck	100
No. 5 Third Deck	90
No. 5 Tank Top	100
No. 6 Third Deck	120

ST-0108

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2608	8.5
FRESH WATER	80	20.0
DRY CARGO	5469	25.5
REEFER CARGO	225	28.2
DECK CARGO	113	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		15585

ST-0109

No. 1 Third Deck	90
No. 2 Third Deck	80
No. 2 Tank Top	100
No. 3 Second Deck	50
No. 3 Third Deck	80
No. 3 Tank Top	75
No. 4 Tank Top	100
No. 5 Third Deck	80
No. 5 26'-6" Flat REEFER	50
No. 5 Third Deck REEFER	60
No. 6 Second Deck	100
No. 7 Second Deck	80

st0110

Load	125 tons---	155 feet	fwd of amidships
Discharge	160 tons---	68 feet	fwd of amidships
Load	140 tons---	75 feet	aft of amidships
Load	170 tons---	185 feet	aft of amidships

ST-0111

No. 1 Second Deck	75
No. 1 Third Deck	80
No. 2 Third Deck	60
No. 2 Tank Top	90
No. 3 Second Deck	80
No. 3 Third Deck	75
No. 4 Third Deck	90
No. 4 Tank Top	60
No. 5 Second Deck	50
No. 5 26'-6" Flat	50
No. 5 Third Deck	50
No. 5 26'-6" Flat REEFER	70
No. 6 Second Deck	75
No. 6 Third Deck	60
No. 7 Third Deck	80

st0112

<u>Item</u>	<u>Tons</u>	<u>LCG-FP</u>
F.O. & SALT WATER	2824	268.5
FRESH WATER	160	312.0
DRY CARGO	7190	267.5
REEFER CARGO	170	354.0
DECK CARGO	155	60.2

<u>Item</u>	<u>Tons</u>	<u>LCG-PP</u>
F.O. & SALT WATER	1810	260.5
FRESH WATER	120	296.0
DRY CARGO	3450	262.5
REEFER CARGO	100	354.0
DECK CARGO	60	59.0

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Load	120 tons---	210 feet fwd of amidships
Discharge	350 tons---	40 feet fwd of amidships
Load	340 tons---	60 feet aft of amidships
Discharge	60 tons---	190 feet aft of amidships

- --- ... --- ...

I. Two reels of hoisting wire. Each reel is 8 feet in circumference and 4 feet wide and has 3000 feet of wire. Both reels are stowed on the flat. Wire weighs 1.55 pounds per linear foot. The tare weight of each reel is 500 pounds.

II. Eight pallets of case goods stowed singly. Each pallet is 8'L X 4'W X 4'H and weighs 1 long ton.

III. 12 steel containers of cement. Each container weighs 1 1/2 tons. Each container is 8'L X 4'W X 4'H. The containers are stowed singly fore and aft.

IV. 10 crates of stewards stores. Each crate measures 4'L X 4'W 3'H and weighs 420 pounds. Each crate is stowed on deck.

ST-0116

DB 1 CL	48.2	DB 6 CL	200.0
DB 1A CL	81.9	DB 6 P	87.0
DB 2 P	71.2	DB 6 S	87.0
DB 2 S	71.2	DT 1A CL	257.6
DB 4 CL	224.1	DT 4 P/S	50.0
DB 4 P	128.1	DT 5 P/S	108.4
DB 4 S	128.1	DIS/WATER	10.0
DB 5 CL	196.2		
DB 5 P	178.0		
DB 5 S	180.0		

<u>Item</u>	<u>Tons</u>	<u>LCG-FP</u>
F.O. & SALT WATER	1950	269.3
FRESH WATER	232	303.6
DRY CARGO	3280	260.5
REEFER CARGO	195	354.0
DECK CARGO	122	60.0

ST-0118

DB 1 CL	48.2	DB 7 P	94.6
DB 1A CL	81.9	DB 7 S	94.6
DB 2 P	71.2	DT 2 P	100.7
DB 2 S	71.2	DT 2 S	100.7
DB 4 P	128.1	DT 6 P	201.2
DB 4 S	128.1	DT 6 S	201.2
DB 5 CL	196.2	DT 7 P	128.8
DB 5 P	178.0	DT 7 S	128.8
DB 5 S	180.0	DT 4 P/S	110.0
DB 6 CL	200.0	DT 5 P/S	108.4
DB 6 P	87.0	DIS/WATER	20.0
DB 6 S	87.0		

ST-0119

DB 1 CL	48.2	DB 6 CL	242.3
DB 1A CL	81.9	DB 6 P	87.0
DB 2 P	71.2	DB 6 S	87.0
DB 2 S	71.2	DB 7 P	94.6
DB 3 CL	227.6	DB 7 S	94.6
DB 3 P	55.6	DT 1 CL	125.3
DB 3 S	55.6	DT 1A CL	257.6
DB 4 CL	224.1	DT 6 P	201.2
DB 4 P	128.1	DT 6 S	201.2
DB 4 S	128.1	DT 4 P/S	120.0
DB 5 CL	196.2	DT 5 P/S	108.4
DB 5 P	150.0	DIS/WATER	20.0
DB 5 S	150.0		

<u>Item</u>	<u>Tons</u>	<u>LCG-FP</u>
F.O. & SALT WATER	3215	263.2
FRESH WATER	160	312.0
DRY CARGO	7880	268.5
REEFER CARGO	140	354.5
DECK CARGO	120	60.0

ST-0121

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2608	8.5
FRESH WATER	80	20.0
DRY CARGO	5469	25.5
REEFER CARGO	225	28.2
DECK CARGO	113	55.0

TOTAL FREE SURFACE MOMENTS 20454
FOR ALL LIQUIDS ON BOARD

ST-0122

DB 1 CL	48.2	DB 6 P	87.0
DB 1A CL	81.9	DB 6 S	87.0
DB 2 P	71.2	DB 7 P	94.6
DB 2 S	71.2	DB 7 S	94.6
DB 4 P	128.1	DT 2 P	100.7
DB 4 S	128.1	DT 2 S	100.7
DB 5 CL	196.2	DT 7 P	128.8
DB 5 P	178.0	DT 7 S	128.8
DB 5 S	180.0	DT 4 P/S	110.0
DB 6 CL	200.0	DT 5 P/S	108.4
		DIS/WATER	20.0

Load	140 tons---	170 feet fwd of amidships
Discharge	320 tons---	60 feet fwd of amidships
Load	270 tons---	132 feet aft of amidships
Discharge	230 tons---	190 feet aft of amidships

ST-0124

Deck cargo	180 Tons
Upper tween deck layer	800 Tons
Lower tween deck layer	800 Tons
Hold layer	2300 Tons

ST-0125

No. 1 Second Deck	80
No. 1 Third Deck	75
No. 2 Third Deck	60
No. 2 Tank Top	94
No. 3 Second Deck	101
No. 3 Tank Top	57
No. 4 Third Deck	75
No. 4 Tank Top	83
No. 5 Tank Top	90
No. 5 26'-6" Flat (Reefer)	30
No. 5 Third Dk Reefer	30

ST-0127

DB 4 CL	224.1	DT 2 P	100.7
DB 4 P	128.1	DT 2 S	100.7
DB 4 S	128.1	DT 3 P	86.1
DB 5 CL	180.0	DT 3 S	86.1
DB 5 P	178.0	DT 4 P/S	105.0
DB 5 S	180.0	DT 5 P/S	108.4
DB 6 CL	242.3	DIS/WATER	20.0
DB 6 P	87.0		
DB 6 S	87.0		

ST-0128

Deck cargo	300 Tons
Upper tween deck layer	2700 Tons
Lower tween deck layer	3650 Tons
Hold layer	2650 Tons

ST-0129

DB 4 CL	224.1	DB 6 CL	200.0
DB 4 P	128.1	DB 6 P	87.0
DB 4 S	128.1	DB 6 S	87.0
DB 5 CL	196.2	DT 1A CL	257.6
DB 5 P	178.0	DT 5 P/S	108.4
DB 5 S	180.0		

ST-0130

No. 1 Second Deck	70
No. 1 Third Deck	70
No. 2 Third Deck	80
No. 2 Tank Top	65
No. 3 Third Deck	55
No. 3 Tank Top	80
No. 4 Second Deck	50
No. 4 Tank Top	90
No. 5 Upper Level Flat	70
No. 5 Tank Top	70
No. 6 Second Deck	80
No. 6 Third Deck	60

ST-0131

No. 1 Second Deck	160
No. 2 Third Deck	85
No. 2 Tank Top	70
No. 3 Second Deck	80
No. 3 Tank Top	75
No. 4 Second Deck	40
No. 4 Tank Top	120
No. 5 26'-6", Flat	150
No. 6 Second Deck	85
No. 6 Third Deck	70

ST-0132

No. 1 Second Deck	420
No. 2 Third Deck	410
No. 3 Third Deck	406
No. 4 Third Deck	418
No. 5 Tank Top	421
No. 6 Third Deck	412

ST-0133

DB 2 P	71.2	DB 5 CL	196.2
DB 2 S	71.2	DB 5 P	178.0
DB 3 CL	227.6	DB 5 S	180.0
DB 3 P	55.6	DB 6 CL	242.3
DB 3 S	55.6	DB 6 P	87.0
DB 4 CL	150.0	DB 6 S	87.0
DB 4 P	100.0	DB 7 P	94.6
DB 4 S	90.0	DB 7 S	94.6
		DT 1 CL	125.3
		DT 1A CL	257.6

st0134

Load	95 tons---	210 feet fwd of amidships
Discharge	160 tons---	60 feet fwd of amidships
Load	140 tons---	60 feet aft of amidships
Load	170 tons---	190 feet aft of amidships

ST-0135

No. 1 Second Deck	90
No. 1 Third Deck	70
No. 2 Third Deck	80
No. 2 Tank Top	85
No. 4 Second Deck	100
No. 4 Third Deck	75
No. 4 Tank Top	60
No. 5 Tank Top	100
No. 5 Upper (Reefer)	75
No. 5 Third Deck Reefer	70
No. 6 Second Deck	40
No. 6 Third Deck	40
No. 7 Second Deck	100
No. 7 Third Deck	50

ST-0136

DB 4 CL	224.1	DB 7 P	90.0
DB 4 P	128.1	DB 7 S	90.0
DB 4 S	128.1	DT 1 CL	125.3
DB 5 CL	196.2	DT 1A CL	257.6
DB 5 P	178.0	DT 4 P/S	100.0
DB 5 S	180.0	DT 5 P/S	108.4
DB 6 CL	242.3	DIS/WATER	24.9
DB 6 P	87.0		
DB 6 S	87.0		

ST-0137

DB 1 CL	48.2	DB 6 P	87.0
DB 1A CL	81.9	DB 6 S	87.0
DB 2 P	71.2	DB 7 P	94.6
DB 2 S	71.2	DB 7 S	94.6
DB 4 P	128.1	DT 2 P	100.7
DB 4 S	128.1	DT 2 S	100.7
DB 5 CL	196.2	DT 6 P	201.2
DB 5 P	178.0	DT 6 S	201.2
DB 5 S	180.0	DT 4 P/S	110.0
DB 6 CL	200.0	DT 5 P/S	108.4
		DIS/WATER	20.0

ST-0138

Stores	50 Tons
Lube oil	13 Tons
Cargo	8240 Tons
Fuel oil	3200 Tons
Fresh water	240 Tons
Ballast	0 Tons

ST-0139

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2608	7.5
FRESH WATER	80	21.0
DRY CARGO	5469	27.0
REEFER CARGO	225	29.2
DECK CARGO	113	55.0

TOTAL FREE SURFACE MOMENTS 22273
FOR ALL LIQUIDS ON BOARD

st0140

Load	140 tons---	170 feet fwd of amidships
Discharge	160 tons---	60 feet fwd of amidships
Discharge	140 tons---	60 feet aft of amidships
Load	230 tons---	190 feet aft of amidships

ST-0141

Deck cargo	300 Tons
Upper tween deck layer	1800 Tons
Lower tween deck layer	2900 Tons
Hold layer	3100 Tons

ST-0142

DB 2 P	71.2	DB 5 CL	196.2
DB 2 S	71.2	DB 5 P	178.0
DB 3 CL	220.0	DB 5 S	180.0
DB 3 P	55.6	DB 6 CL	242.3
DB 3 S	55.6	DB 6 P	87.0
DB 4 CL	224.1	DB 6 S	87.0
DB 4 P	128.1	DB 7 P	94.6
DB 4 S	128.1	DB 7 S	94.6
		DT 4 P/S	110.0
		DT 5 P/S	108.4

ST-0143

Deck cargo	180 Tons
Upper tween deck layer	3000 Tons
Lower tween deck layer	3500 Tons
Hold layer	2500 Tons

ST-0144

Stores	50 Tons
Lube oil	13 Tons
Cargo	2105 Tons
Fuel oil	1860 Tons
Fresh water	108 Tons
Ballast	0 Tons

ST-0145

DB 1 CL	48.2	DB 6 CL	200.0
DB 1A CL	81.9	DB 6 P	87.0
DB 2 P	71.2	DB 6 S	87.0
DB 2 S	71.2	DB 7 P	94.6
DB 4 CL	224.1	DB 7 S	94.6
DB 4 P	128.1	DT 2 P	100.7
DB 4 S	128.1	DT 2 S	100.7
DB 5 CL	196.2	DT 4 P/S	110.0
DB 5 P	178.0	DT 5 P/S	108.4
DB 5 S	180.0	DIS/WATER	20.0

ST-0146

Deck cargo	300 Tons
Upper tween deck layer	3000 Tons
Lower tween deck layer	1500 Tons
Hold layer	2500 Tons

ST-0147

Stores	50 Tons
Lube oil	13 Tons
Cargo	3036 Tons
Fuel oil	2636 Tons
Fresh water	154 Tons
Ballast	204 Tons

ST-0148

DB 1 CL	48.2	DB 5 P	178.0
DB 1A CL	81.9	DB 5 S	180.0
DB 2 P	71.2	DB 6 CL	200.0
DB 2 S	71.2	DB 6 P	87.0
DB 3 CL	227.6	DB 6 S	87.0
DB 4 CL	224.1	DT 2 P	100.7
DB 4 P	128.1	DT 2 S	100.7
DB 4 S	128.1	DT 4 P/S	110.0
DB 5 CL	196.2	DT 5 P/S	108.4
		DIS/WATER	20.0

ST-0149

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	1906	7.5
FRESH WATER	160	21.0
DRY CARGO	7815	27.0
REEFER CARGO	125	29.2
DECK CARGO	155	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		17899

ST-0150

DB 1 CL	48.2	DB 5 P	178.0
DB 1A CL	81.9	DB 5 S	180.0
DB 2 P	71.2	DB 6 CL	200.0
DB 2 S	71.2	DB 6 P	87.0
DB 3 CL	227.6	DB 6 S	87.0
DB 4 CL	224.1	DT 1A CL	257.6
DB 4 P	128.1	DT 2 P	100.7
DB 4 S	128.1	DT 2 S	100.7
DB 5 CL	196.2	DT 4 P/S	110.0
		DT 5 P/S	108.4
		DIS/WATER	20.0

ST-0151

DB 1 CL	48.2	DB 5 P	178.0
DB 1A CL	81.9	DB 5 S	180.0
DB 2 P	71.2	DB 6 CL	200.0
DB 2 S	71.2	DB 6 P	87.0
DB 3 CL	227.6	DB 6 S	87.0
DB 4 CL	224.1	DT 1A CL	257.6
DB 4 P	128.1	DT 2 P	100.7
DB 4 S	128.1	DT 2 S	100.7
DB 5 CL	196.2	DT 4 P/S	110.0
		DT 5 P/S	108.4
		DIS/WATER	20.0

Load	140 tons---	170 feet fwd of amidships
Discharge	160 tons---	60 feet fwd of amidships
Load	140 tons---	132 feet aft of amidships
Discharge	230 tons---	190 feet aft of amidships

ST-0153

Stores	50 Tons
Lube oil	13 Tons
Cargo	7212 Tons
Fuel oil	2485 Tons
Fresh water	98 Tons
Ballast	0 Tons

Load	90 tons--	210 ft	fwd of amidships
Discharge	240 tons--	38 ft	fwd of amidships
Discharge	120 tons--	94 ft	aft of amidships
Load	140 tons--	150 ft	aft of amidships

ST-0155

DB 1 CL	48.2	DB 6 CL	200.0
DB 1A CL	81.9	DB 6 P	87.0
DB 2 P	71.2	DB 6 S	87.0
DB 2 S	71.2	DT 1A CL	257.6
DB 4 P	128.1	DT 2 P	100.7
DB 4 S	128.1	DT 2 S	100.7
DB 5 CL	196.2	DT 4 P/S	110.0
DB 5 P	178.0	DT 5 P/S	108.4
DB 5 S	180.0	DIS/WATER	20.0

ST-0156

DB 1 CL	48.2	DB 6 CL	200.0
DB 1A CL	81.9	DB 6 P	87.0
DB 2 P	71.2	DB 6 S	87.0
DB 2 S	71.2	DT 1A CL	257.6
DB 3 P	55.6	DT 2 P	100.7
DB 3 S	55.6	DT 2 S	100.7
DB 4 P	128.1	DT 7 P	128.8
DB 4 S	128.1	DT 7 S	128.8
DB 5 CL	196.2	DT 4 P/S	110.0
DB 5 P	178.0	DT 5 P/S	108.4
DB 5 S	180.0	DIS/WATER	20.0

ST-0157

DB 1 CL	48.2	DB 5 P	178.0
DB 1A CL	81.9	DB 5 S	180.0
DB 2 P	71.2	DB 6 CL	200.0
DB 2 S	71.2	DT 2 P	100.7
DB 3 P	55.6	DT 2 S	100.7
DB 3 S	55.6	DT 6 P	201.2
DB 4 P	128.1	DT 6 S	201.2
DB 4 S	128.1	DT 4 P/S	110.0
DB 5 CL	196.2	DT 5 P/S	80.0
		DIS/WATER	20.0

ST-0158

DB 1 CL	48.2	DB 7 P	94.6
DB 1A CL	60.0	DB 7 S	94.6
DB 2 P	71.2	DT 1A CL	251.6
DB 2 S	71.2	DT 2 P	100.7
DB 4 CL	224.1	DT 2 S	100.7
DB 4 P	105.0	DT 3 P	86.1
DB 4 S	105.0	DT 3 S	86.1
DB 5 CL	196.2	DT 6 P	165.0
DB 6 CL	200.0	DT 6 S	165.0
DB 6 P	87.0	DT 7 P	128.8
DB 6 S	87.0	DT 7 S	128.8

ST-0159

No. 1 Main Deck	60
No. 1 Third Deck	80
No. 2 Second Deck	70
No. 2 Tank Top	220
No. 3 Second Deck	50
No. 4 Third Deck	110
No. 4 Tank Top	350
No. 5 26'-6" Flat CL	110
No. 5 26'-6" Flat P/S REEFER	80
No. 6 Second Deck	90
No. 6 Third Deck	110
No. 7 Third Deck	80

ST-0160

No. 1 Third Deck	80
No. 2 Second Deck	70
No. 2 Tank Top	120
No. 3 Second Deck	50
No. 3 Tank Top	410
No. 4 Tank Top	350
No. 5 26'-6" Flat CL	110
No. 5 26'-6" Flat P/S REEFER	80
No. 5 Tank Top	180
No. 6 Second Deck	90
No. 6 Third Deck	180
No. 7 Third Deck	140

ST-0161

No. 1 Second Deck	60
No. 2 Second Deck	70
No. 2 Tank Top	120
No. 3 Second Deck	180
No. 3 Tank Top	410
No. 4 Second Deck	140
No. 5 Upper Level Flat	110
No. 5 Tank Top	180
No. 6 Second Deck	90
No. 6 Third Deck	70
No. 7 Second Deck	130
No. 7 Third Deck	140

ST-0162

No. 1 Second Deck	60
No. 2 Second Deck	120
No. 2 Tank Top	140
No. 3 Second Deck	180
No. 4 Second Deck	140
No. 4 Tank Top	320
No. 5 Second Deck	70
No. 5 Tank Top	180
No. 6 Second Deck	90
No. 6 Third Deck	70
No. 7 Second Deck	130
No. 7 Third Deck	140

ST-0163

No. 1 Main Deck	70
No. 2 Second Deck	120
No. 2 Third Deck	130
No. 3 Second Deck	180
No. 3 Tank Top	430
No. 4 Tank Top	320
No. 5 Tank Top	320
No. 6 Second Deck	70
No. 6 Third Deck	180
No. 7 Second Deck	120
No. 7 Third Deck	140

ST-0164

No. 1 Main Deck	70
No. 2 Second Deck	120
No. 2 Third Deck	130
No. 3 Second Deck	180
No. 3 Tank Top	430
No. 4 Tank Top	320
No. 5 Tank Top	320
No. 6 Second Deck	70
No. 6 Third Deck	180
No. 7 Second Deck	120
No. 7 Third Deck	140

ST-0165

No. 1 Main Deck	120
No. 2 Third Deck	120
No. 3 Second Deck	80
No. 3 Tank Top	320
No. 5 Second Deck	90
No. 5 Third Deck	210
No. 5 Tank Top	450
No. 7 Second Deck	110
No. 7 Third Deck	140

ST-0166

No. 1 Main Deck	90
No. 1 Second Deck	100
No. 2 Second Deck	160
No. 2 Third Deck	130
No. 3 Tank Top	380
No. 4 Tank Top	320
No. 5 Tank Top	360
No. 5 26'-6" Flat P/S REEFER	110
No. 6 Second Deck	120
No. 6 Third Deck	110
No. 7 Second Deck	120
No. 7 Third Deck	140

ST-0167

DB 1 CL	48.2	DT 6 P	201.2
DB 2 P	65.0	DT 6 S	201.2
DB 2 S	65.0		
DB 3 CL	227.6		
DB 4 CL	224.1		
DB 5 CL	196.2		
DB 5 P	178.0		
DB 5 S	180.0		
DB 6 CL	220.0		
DB 7 P	90.0		
DB 7 S	90.0		

ST-0168

No. 1 Main Deck	90
No. 1 Second Deck	100
No. 2 Second Deck	160
No. 2 Third Deck	130
No. 3 Second Deck	180
No. 3 Tank Top	380
No. 4 Tank Top	320
No. 5 Second Deck	160
No. 5 26'-6" Flat P/S REEFER	110
No. 5 Tank Top	360
No. 6 Second Deck	110
No. 7 Second Deck	120
No. 7 Third Deck	140

ST-0169

No. 1 Main Deck	120
No. 2 Second Deck	120
No. 2 Third Deck	130
No. 3 Tank Top	380
No. 4 Tank Top	320
No. 5 26'-6" Flat P/S REEFER	110
No. 6 Second Deck	120
No. 6 Third Deck	110
No. 7 Second Deck	120
No. 7 Third Deck	140

ST-0170

DB 1 CL	48.2	DB 6 CL	242.3
DB 1A CL	81.9	DB 6 P	87.0
DB 2 P	71.2	DB 6 S	87.0
DB 2 S	71.2	DB 7 P	66.2
DB 3 CL	227.6	DB 7 S	58.4
DB 3 P	55.6	DT 1	84.2
DB 3 S	55.6	DT 1A CL	235.6
DB 4 CL	224.1	DT 3 P	86.1
DB 4 P	128.1	DT 3 S	86.1
DB 4 S	128.1	DT 6 P	201.2
DB 5 CL	196.2	DT 6 S	201.2
		DT 7 P	128.8
		DT 7 S	128.8

ST-0171

DB 1 CL	48.2	DB 6 P	87.0
DB 1A CL	81.9	DB 6 S	87.0
DB 2 P	71.2	DB 7 P	94.6
DB 2 S	71.2	DB 7 S	94.6
DB 3 CL	227.6	DT 2 P	100.7
DB 4 CL	224.1	DT 2 S	100.7
DB 4 P	128.1	DT 3 P	86.1
DB 4 S	128.1	DT 3 S	86.1
DB 5 CL	180.0	DT 6 P	201.2
DB 5 P	178.0	DT 6 S	201.2
DB 5 S	180.0	DT 7 P	128.8
DB 6 CL	212.0	DT 7 S	128.8

ST-0172

DB 1 CL	48.2	DB 7 P	94.6
DB 1A CL	81.9	DB 7 S	94.6
DB 2 P	71.2	DT 1 CL	125.3
DB 2 S	71.2	DT 1A CL	235.6
DB 3 CL	214.4	DT 2 P	100.7
DB 4 CL	224.1	DT 2 S	100.7
DB 4 P	128.1	DT 3 P	86.1
DB 4 S	128.1	DT 3 S	86.1
DB 6 CL	212.0	DT 6 P	201.2
DB 6 P	87.0	DT 6 S	201.2
DB 6 S	87.0	DT 7 P	128.8
		DT 7 S	128.8

ST-0173

DB 1 CL	48.2	DB 7 P	94.6
DB 1A CL	81.9	DB 7 S	94.6
DB 2 P	71.2	DT 1 CL	125.3
DB 2 S	71.2	DT 1A CL	235.6
DB 3 CL	227.6	DT 3 P	86.1
DB 3 P	55.6	DT 3 S	86.1
DB 3 S	55.6	DT 6 P	201.2
DB 4 CL	224.1	DT 6 S	201.2
DB 4 P	128.1	DT 7 P	128.8
DB 4 S	128.1	DT 7 S	128.8
DB 5 CL	170.4		
DB 6 CL	212.0		

st0174

DB 1 CL	48.2	DB 6 P	87.0
DB 1A CL	81.9	DB 6 S	87.0
DB 2 P	71.2	DB 7 P	94.6
DB 2 S	71.2	DB 7 S	94.6
DB 3 CL	227.6	DT 1 CL	125.3
DB 3 P	55.6	DT 1A CL	235.6
DB 3 S	55.6	DT 3 P	86.1
DB 4 CL	208.6	DT 3 S	86.1
DB 4 P	128.1	DT 6 P	201.2
DB 4 S	128.1	DT 6 S	201.2
DB 5 CL	180.4	DT 7 P	128.8
DB 6 CL	212.0	DT 7 S	128.8

ST-0175

DB 1 CL	48.2	DB 7 P	94.6
DB 1A CL	81.9	DB 7 S	94.6
DB 2 P	71.2	DT 1 CL	125.3
DB 2 S	71.2	DT 1A CL	235.6
DB 3 CL	227.6	DT 3 P	86.1
DB 3 P	55.6	DT 3 S	86.1
DB 3 S	55.6	DT 6 P	201.2
DB 4 CL	208.6	DT 6 S	201.2
DB 4 P	128.1	DT 7 P	128.8
DB 4 S	128.1	DT 7 S	128.8
DB 5 CL	196.2		
DB 6 CL	212.0		
DB 6 P	87.0		
DB 6 S	87.0		

ST-0176

DB 1 CL	48.2	DB 7 P	94.6
DB 1A CL	81.9	DB 7 S	94.6
DB 2 P	71.2	DT 1 CL	125.3
DB 2 S	71.2	DT 1A CL	235.6
DB 3 CL	227.6	DT 3 P	86.1
DB 3 P	55.6	DT 3 S	86.1
DB 3 S	55.6	DT 6 P	201.2
DB 4 CL	208.6	DT 6 S	201.2
DB 4 P	128.1	DT 7 P	128.8
DB 4 S	128.1	DT 7 S	128.8
DB 5 CL	170.4		
DB 6 CL	212.0		

ST-0177

DB 1 CL	48.2	DB 7 P	66.2
DB 1A CL	81.9	DB 7 S	58.4
DB 2 P	71.2	DT 1 CL	125.3
DB 2 S	71.2	DT 1A CL	235.6
DB 3 CL	227.6	DT 3 P	86.1
DB 3 P	55.6	DT 3 S	86.1
DB 3 S	55.6	DT 6 P	201.2
DB 4 CL	224.1	DT 6 S	201.2
DB 4 P	87.0	DT 7 P	128.8
DB 4 S	87.0	DT 7 S	128.8
DB 5 CL	196.2		
DB 6 CL	242.3		
DB 6 P	87.0		
DB 6 S	87.0		

ST-0178

DB 1 CL	48.2	DB 7 P	44.6
DB 1A CL	81.9	DB 7 S	20.8
DB 2 P	71.2	DT 1 CL	125.3
DB 2 S	71.2	DT 1A CL	235.6
DB 3 CL	140.6	DT 3 P	86.1
DB 3 P	55.6	DT 3 S	86.1
DB 3 S	55.6	DT 6 P	201.2
DB 4 CL	224.1	DT 6 S	201.2
DB 4 P	87.0	DT 7 P	128.8
DB 4 S	87.0	DT 7 S	128.8
DB 5 CL	170.4		
DB 6 CL	212.0		

ST-0179

DB 1 CL	40.0	DT 6 P	201.2
DB 2 P	65.0	DT 6 S	201.2
DB 2 S	65.0	DT 7 P	110.0
DB 3 CL	227.6	DT 7 S	110.0
DB 4 CL	224.1		
DB 4 P	128.1		
DB 4 S	128.1		
DB 5 CL	196.2		
DB 5 P	170.0		
DB 5 S	170.0		
DB 6 CL	242.3		

ST-0180

DB 1 CL	48.2	DB 7 P	44.6
DB 1A CL	81.9	DB 7 S	94.6
DB 2 P	71.2	DT 1 CL	125.3
DB 2 S	71.2	DT 1A CL	235.6
DB 3 CL	140.6	DT 3 P	86.1
DB 3 P	55.6	DT 3 S	86.1
DB 3 S	55.6	DT 6 P	201.2
DB 4 CL	224.1	DT 6 S	201.2
DB 4 P	87.0	DT 7 P	128.8
DB 4 S	87.0	DT 7 S	128.8
DB 5 CL	170.4		
DB 6 CL	212.0		

ST-0181

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	1664	7.5
FRESH WATER	160	21.0
DRY CARGO	7190	27.0
REEFER CARGO	170	29.2
DECK CARGO	155	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		15138

ST-0182

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	1870	7.5
FRESH WATER	210	21.0
DRY CARGO	4882	27.0
REEFER CARGO	170	29.2
DECK CARGO	452	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		17555

ST-0183

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2335	7.5
FRESH WATER	190	21.0
DRY CARGO	5440	27.0
REEFER CARGO	225	29.2
DECK CARGO	377	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		15322

ST-0184

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2685	7.5
FRESH WATER	190	21.0
DRY CARGO	5440	27.0
REEFER CARGO	225	29.2
DECK CARGO	365	55.0

TOTAL FREE SURFACE MOMENTS 16854
FOR ALL LIQUIDS ON BOARD

ST-0185

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2685	7.5
FRESH WATER	190	21.0
DRY CARGO	5440	27.0
REEFER CARGO	225	29.2
DECK CARGO	185	55.0

TOTAL FREE SURFACE MOMENTS 17324
FOR ALL LIQUIDS ON BOARD

ST-0186

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2246	7.5
FRESH WATER	190	21.0
DRY CARGO	3556	27.0
REEFER CARGO	180	29.2
DECK CARGO	120	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		12366

ST-0187

DB 1 CL	40.0	DT 6 P	201.2
DB 2 P	65.0	DT 6 S	201.2
DB 2 S	65.0	DT 7 P	128.8
DB 3 CL	227.6	DT 7 S	128.8
DB 4 CL	224.1		
DB 4 P	128.1		
DB 4 S	128.1		
DB 5 CL	196.2		
DB 5 P	178.0		
DB 5 S	180.0		
DB 6 CL	242.3		

ST-0188

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2145	6.7
FRESH WATER	190	21.0
DRY CARGO	3710	26.4
REEFER CARGO	180	29.2
DECK CARGO	120	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		12088

ST-0189

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2045	6.7
FRESH WATER	240	21.0
DRY CARGO	3112	25.8
REEFER CARGO	90	29.2
DECK CARGO	80	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		11542

ST-0190

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2845	7.3
FRESH WATER	180	21.0
DRY CARGO	3188	25.3
REEFER CARGO	40	29.2
DECK CARGO	257	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		11980

ST-0191

No. 1 Third Deck	40
No. 2 Second Deck	30
No. 2 Third Deck	50
No. 2 Tank Top	80
No. 3 Tank Top	80
No. 4 Tank Top	220
No. 5 Tank Top	110
No. 5 Third Deck REEFER	40
No. 6 Second Deck	160
No. 6 Third Deck	80

ST-0192

ITEM	TONS	KG
CREW and STORES	50	43.7
LUBE OIL	13	25.8
F.O. & SALT WATER	2845	7.3
FRESH WATER	180	21.0
DRY CARGO	3188	25.3
REEFER CARGO	40	29.2
DECK CARGO	60	55.0
TOTAL FREE SURFACE MOMENTS FOR ALL LIQUIDS ON BOARD		12600

ST-0193

No. 1 Third Deck	60
No. 2 Second Deck	50
No. 2 Third Deck	90
No. 2 Tank Top	40
No. 3 Second Deck	120
No. 3 Tank Top	70
No. 5 Second Deck	120
No. 5 Tank Top	280
No. 6 Second Deck	30

ST-0194

No. 1 Second Deck	80
No. 2 Second Deck	110
No. 2 Tank Top	70
No. 3 Tank Top	90
No. 4 Third Deck	35
No. 5 Second Deck	60
No. 5 Tank Top	220
No. 6 Second Deck	40
No. 6 Third Deck	70
No. 7 Second Deck	100

ST-0195

No. 1 Second	75
No. 2 Tank Top	120
No. 3 Second Deck	60
No. 3 Third Deck	100
No. 3 Tank Top	80
No. 4 Third Deck	150
No. 5 Upper Level Flat	120
No. 5 Tank Top	90
No. 5 Third Deck REEFER	80
No. 6 Third Deck	40
No. 7 Second Deck	125