

RECEIVED
WRECK SECTION
NO

WRECK SECTION
NO

Rpt. 1.

STEEL STEAMER

State if Report has been sent on the Freeboard of the Vessel **YES**

State if Report is sent on the Machinery of the Vessel **YES**

Date of completion of report **6TH JANUARY 1945**

Port of **MIDDLESBROUGH**

No. **17765**

Survey held at **HAVERTON HILL-ON-TEES** Date First Survey **10TH JUNE 1943** Last Survey **20TH DECEMBER 1944**

On the **S/S. "WAVE EMPEROR". MACHINERY AFT SINGLE SCREW TURBINE TANKER.**

State Type **FULL SCANTLING**

State Type of Erections **POOP, BRIDGE & F.C.L.**

TONNAGE under Tonnage Deck... **7015.52**

CLASS **100 A.1.** State if with freeboard as condition of Class
CARRYING PETROLEUM IN BULK
LONGITUDINAL FRAMING AT BOTTOM & AT DECK,
BUTTS OF SHELL & UPPER DECK E.W.

No.

Built at **HAVERTON HILL-ON-TEES**

Do. of space or spaces between Tonnage Dk. and Upper Dk. ☒

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) **L 465'-0"**

Launched **30TH SEPT. 1944** Yard No. **361.**

Total **7015.52**

Breadth (greatest moulded) **B 64'-0"**

Builders **FURNESS S.B. CO. LTD.**

Gross Tonnage **8195.62**

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) **D 35'-6"**

Owners **ADMIRALTY.**

Register Tonnage **4566.14**

1st Longitudinal Number (L x D) **= 16100**

Managers ☒

(Where necessary to be entered in Reg. Book.)

2nd Numeral L x (B + D) **= 45860**

Residence ☒

REGISTERED DIMENSIONS.

FEET.

Length **473.8**

Breadth **64.3**

Depth **35.4**

Framing Depth "d," at middle of length. See Sec. 3 (1d)

Proportions—Depth to Length—Uppermost continuous deck to top of keel **13.10**

Do. Long Bridge to top of keel ☒

Draught Moulded **28'-4 1/2"**

Port of Registry **LONDON**

If surveyed while building, afloat, & in dry dock

SURVEYED WHILE BUILDING & AFLOAT & IN DRY DOCK.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	33" 30" ✓		Bracket Floors, Frame	✓	
" " from 3/4 length to Collision bulkhead	33" 27" ✓		" " Reversed Frame	✓	
" " in peaks	24" ✓		" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	M.S. 47" 54" 48" ✓	
Frame Amidships, Angle E or F	11" 3 1/2" 44" ✓		" " top Angles	D. 3 1/2" 3 1/2" 48" ✓	
" " Extends up to	UPPER DECK. ✓		" " bottom Angles	D. 4" 4" 58" ✓	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	2 @ 42" & AS PER PLAN. ✓	
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness		
Depth of Framing Girder	11" ✓		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	TANK TOP LEVEL ✓	
Frames in Uppermost Continuous 'tween Poop Decks, Angle E or F	7" 3" 38" ✓	EVERY.	" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	TO MARGIN ANGLE ✓	
" " Second 'tween Decks, Angle, E or F	MAIN FRAME. ✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	IN MACHINERY SPACE. ✓	
" " Third " " " "	✓		" " Gussets, spacing and scantling forward 1/2 len. from stem	✓	
Framing in Peaks, Angle E or F	9" 3 1/2" 38" ✓		Tank Side Brackets, height above base line in M.S. at toe of Frame and thickness	3'-0" 44" ✓	ABOVE TANK TOP. ✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 @ 4 7/8" ✓		INNER BOTTOM PLATING. M.S.		
State if Frame Joggled	YES ✓		Breadth and thickness of Middle Line Strake	.52" ✓	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	SIDE STRINGERS & WEB FRAMES, STRG & BEAMS IN FORE PEAK ✓		Thickness of remainder in Hold M.S.	.52" ✓	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	SHELL "B & C" = 79" ✓ FRS- 134-147 LONG BACK BARS 3 1/2" x 3 1/2" x 44" ✓ MAIN FRS- 149-170 6" x 6" x 44" ✓		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	YES. ✓	
SINGLE BOTTOM. IN DEEP TANK FORWARD			BEAMS. IN WAY OF MACHINERY SPACE		
Floors, Depth and thickness at mid-line in Holds	48" x 40" ✓		Uppermost Continuous Deck, amidships in Walls, Angle, E or F	9" 3 1/2" 40" ✓	EVERY.
Height of Brackets at side above base line at toe of frame	6'-0" BELOW NO. 3 STRINGER. 44" ✓		" " in way of Bridge, Angle, E or F	8" 3" 38" ✓	EVERY
Middle Line Keelson, on Floors, Angles, IN CARGO TANKS, E or F	1/2 BHD. FORW. 149 FR. ✓		Spacing	(SEE SEPARATE SHEET). ✓	
" " Through Plate or Intercoastal Plate	48" x 42" ✓		Second Deck, amidships, Angle, E or F	7" 3" 40" ✓	
" " Foundation Plate on Floors	10" x 50" FLAT ✓		O.T. FLAT FORWARD		
" " Flat Plate Keel Angle	EW, ON TOP OF YER. KEEL ✓		Spacing	27" ✓	
Side Keelsons, No. each side	EW, DIRECT TO F.P.K. ✓		Third Deck, amidships, Angle, E or F	✓	
" " thickness of Intercoastal Plate	FORE & AFT BULKDS (P&S) ✓		Spacing		
" " Angles			Fourth Deck, amidships, Angle, E or F	✓	
DOUBLE BOTTOM. IN ENGINE ROOM.			Spacing		
Solid Floors, thickness and spacing	42" @ 30" ✓		Poop Deck, Angle, E or F	9" 3 1/2" 375" ✓	
" " Are Frame and Reversed Frame joggled?	FRAMES ONLY ✓		Spacing	EVERY ✓	
Bracket Floors, breadth and thickness at middle line	✓		Bridge Deck, Angle, E or F	LONGITUDINAL BEAMS (SEE SEPARATE SHEET). ✓	
" " breadth and thickness at margin plate	✓		Spacing		
			Forecastle Deck, Angle, E or F	9" 3 1/2" 375" ✓	
			Spacing	EVERY ✓	

PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....				
in 'tween Decks, Size and Spacing.....	✓			
CENTRE LINE BULKHEAD IN DEEP TANK FORWARD	✓			
VERTICAL PLATING	40"			
" " STIFFENERS	12 3/2" 50"			
" in Holds	EVERY 27"			
LONGITUDINAL O.T. { UNIONMELT WELDING OF PLATING				
Centre Line Bulkhead. P & S. To STIFFENERS	10" 40" 5" 72"	0 33" T		
Stiffeners and Spacing.....	55" R.S. DIST			
STIFFENERS AT PANEL JOINTS 10" 40" 5" 55"				
Plating, thickness of	VERTICAL, FULL HEIGHT 43"			
STRINGERS AND DECKS.				
Uppermost Continuous Deck.				
Stringer Plate, breadth and thickness in Wells	92 5/16" x .80"			
DECK & STRINGER PLATE BUTTS E.W. SINGLE VEE	✓			
AT BREAK OF POOP & (in way of) Bridge	.96"			
" Angle in Wells	6" 6" .80"			
Thickness of Plating abreast Deck openings in way of Wells	.74"			
Thickness of Plating abreast Deck openings in way of Bridge	8 AS PER PROFILE			
Thickness of Plating within line of openings...	NO OPENINGS			
If Sheathed, material and thickness	64 P, .74 S.			
Second Deck, O.T. FLAT FORWARD OF 149.				
Stringer Plate, breadth and thickness in Wells	NONE.			
	48" x .38"			
Stringer Plate, breadth and thickness in way of Bridge				
Thickness of Plating abreast Deck openings in way of Wells				
Thickness of Plating abreast Deck openings in way of Bridge				
Thickness of Plating within line of openings...				
If Sheathed, material and thickness				
Third Deck.				
Stringer Plate, breadth and thickness				
If Plated, state thickness				
Fourth Deck.				
Stringer Plate, breadth and thickness				
If Plated, state thickness				
Poop Deck.				
Stringer Plate, breadth and thickness	60" x .38"			
BUTTS & SEAMS E.W. SINGLE VEE	.30" EXPOSED			
Plating, Sheathing, material and thickness	SHEATHED 2 1/2" O.P. .26" INSIDE.			
Bridge Deck.				
Stringer Plate, breadth and thickness	75" x .38"			
BUTTS & SEAMS E.W. SINGLE VEE	.34"			
Plating, Sheathing, material and thickness				
Forecastle Deck.				
Stringer Plate, breadth and thickness	40" x .38"			
BUTTS E.W. SINGLE VEE	.36"			
Plating, Sheathing, material and thickness	.50" UNDER WINDLASS.			

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?		ALL BUTTS. E.W. ✓		STRAPPED OR LAPPED.		
	AMIDSHIPS. M		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.		RIVETS.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.			Diam.	Spacing cr. to cr.
FLAT PLATE KEEL	53 1/2	1.00 ✓	.84 ✓	.84 ✓	✓	2 ✓	1 1/8 ✓	4 1/2 ✓	DOUBLE VEE. ✓			
“ DBLG. (if any)					✓							
BOTTOM PLATING, No. of of Strakes 4.....		.72 ✓	.51 ✓	.63 ✓	✓	2 ✓	7/8 ✓	3 3/8 ✓	SINGLE VEE & SEALING RUNS ✓			
BILGE PLATING, No. of Strakes 1.....		.72 ✓	.51 ✓	.63 ✓	✓	2 ✓	7/8 ✓	3 3/8 ✓	“ “ “ “ “ “			
SIDE PLATING, No. of Strakes 3.....	80 3/4 ✓	.66 ✓	.48 ✓	.48 ✓	✓	2 ✓	7/8 ✓	3 1/4 ✓	“ “ “ “ “ “			
UPPER DECK, Sheer- strake in Wells.....	81 ✓	.92 ✓	.48 ✓	.48 ✓	✓	1 ✓	3/4 ✓	3 ✓	DOUBLE VEE FOR 1/2 L & SINGLE VEE & SEALING RUNS AT ENDS. ✓			
UPPER DECK, Sheer- strake in Bridge ...		1.10 AT POOP BREAK ✓				✓			{ “ “ “ “ “ “			
STRAKE BELOW Sheer- strake in Wells.....	81 ✓	.72 ✓	.48 ✓	.48 ✓	✓	2 ✓	1 ✓	3 3/4 ✓	SINGLE VEE & SEALING RUNS. ✓			
STRAKE BELOW Sheer- strake in Bridge72 ✓			✓	2 ✓	1 ✓	3 3/4 ✓	“ “ “ “ “ “			
POOP SIDE PLATING50 PF ✓ .40 ✓		1 ✓	3/4 ✓	3 ✓	“ “ “ “ “ “			
BRIDGE SIDE PLATING50 ENDS ✓ .44 ✓							FITTED IN ONE PLATE ✓			
FORECASTLE SIDE PLATING	2 STRAKES		.44 ✓			1 ✓	3/4 ✓	3 ✓	“ “ “ “ “ “			

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel	15
Extending to Upper Deck (Sec. 3 c)	15 TO UPPER DECK
" Deck next below	ONE EXTENDS TO SECOND DECK
As per Rule	✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	FLAT PLATE			
STEM	10 1/2" x 2 3/4" PLATES ABOVE STEEL	1-5"	15/8"	
STERN FRAME	Propeller Post	CAST STEEL	2 1/2"	
	Rudder	1-3"	15/8"	
Speed of Vessel	15 KNOTS.			
RUDDER—Type	DOUBLE PLATE STREAM LINED			
A x D	68.9 x 5			
Diam. of head	FORGED STEEL	13 3/4"		
Main piece at top pintle	FORGED STEEL	13 3/4"		
heel	STEEL	13 1/2"		
how constructed	BUILT UP & E.W.			
double or single plate	DOUBLE .75"			
coupling, vertical or horizontal	6 @ 4" DIA. FITTED STEEL BOLTS.			

STIFFENERS.	VERTICAL.		HORIZONTAL.	
	Scantlings.	Spacing.	Scantlings.	Spacing.
CENTRE TANKS FULL DEPTH	10" x 40" 5" 72" @ 33"	2-10" x .42"	9-3"	
MIDSHIP BULKHEAD, Upper 'tween decks	3-1" x .42" 11-9" ABOVE LOWER	12" x .58" FLAT E.W. FACE BAR		
WING TANKS FULL DEPTH	10" x 40" 5" 72" @ 33"	12" x .66" FLAT E.W. FACE BAR		
" Third	2-9" x .40" 11-9" ABOVE LOWER	10" x .45" FLAT E.W. FACE BAR		
O.T. FLAT TO UPPER DECK	5-3" x .44" OA	28"	NONE	6-0"
CHAIN LKR. BTM. TO O.T. FLAT	6-3" x .34" E	24"	NONE	10-3 1/2" x .46" BA
COLLISION (in Hold)	46-33"	9 x 3 1/2" x .38" E	24"	24" x .40" PLATE, FACE BAR
W.T. FLAT TO UPPER DECK	30"	6-3" x .30" OA	24"	24" x .40" PLATE, G-0"
AFTER PEAK TO W.T. FLAT N° 9	44-30"	7-3" x .34" E	24"	10-3 1/2" x .46" E FACE BAR

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) OPEN HEARTH PROCESS.

PLATES:- SOUTH DURHAM STEEL & IRON CO LTD

ANGLES:- CARGO FLEET, DORMAN LONG, SKINNING GROVE, CONSETT.

Has the Steel been tested as required by the Rules? YES.

FRAMING.		AMIDSHIPS.			ENDS.			Any Departure from Approved Plans to be Noted.	RIVETING.					
		In Ship.			In Ship.				Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads.	Rivets in Brackets to Bulkheads.		
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		Diam. Ins.	Speng. Ins.		Number.	Diameter. Inches.	
Framing of	E, L WE													
Frames in Bridge 'tween Decks	No. 1	7"	3"	3/8"					3/4"	4 1/2"		7	7/8"	
Frames from Uppermost Continuous Deck	No. 1													
	" 2													
	" 3													
	" 4	TRANSVERSE												
	" 5	FRAMING												
	" 6	AT												
	" 7	SIDES. ✓												
	" 8													
	" 9													
OUTBOARD	" 10	12"	44"	3 1/2" x 3 1/2" x 60"					7/8"	5"	13 @ 3 1/8" BHD. 11 @ 3 1/8" TRANS.	E.W. ✓		
	" 11	17"	64"	4" x 4" x 68"			HEEL OF BARS EW FOR 5'-6" FROM BHD.		7/8"	5"	13 @ 3 1/8" BHD. 11 @ 3 1/8" TRANS.	E.W. ✓		
LONGITUDINALS	" 12						EACH END IN LIEU OF BACK BARS, ✓		"	"	"	"		
ON	" 13						EXCEPT N° 6 CENTRE TANK. ✓		"	"	"	"		
BOTTOM	" 14						WITH 3 1/2" x 3 1/2" x 44" BACK BARS ✓		"	"	"	"		
ONLY	" 15						IN N° 6 CENTRE TANK FRG-134-147. ✓		"	"	"	"		
	" 16								"	"	"	"		
Spacing of Longitudinal Frames	Amidships	33"												
	At Ends	33"												
Double Bottoms	Tank Top Longitudinals													
L, L or C	Bottom													
Spacing of Longitudinals	Amidships													
	At ends...													
Transverses.														
Side (in 'tween Decks)	Depth and Thickness	15"		38"										
	Face Angles	3"	3"	38"										
	Lugs to Shell	3 1/2"	3 1/2"	38"					3/4"	3 3/8"				
Side (in Hold)	Depth and Thickness	37 1/2"		42"										
	Face Angles	6"	3 1/2"	64"	OA.									
	Lugs to Shell	3 1/2"	6"	44"	OA.		AT BILGE & TOP SIDE. ✓		7/8"	4 7/8"				
	Depth and Thickness	48"		44"	CENTRE									
	Face Angles	6"	3 1/2"	62"	CENTRE									
	Lugs to Shell	6"	6"	44"	SIDES				7/8"	4"				
Bottom	Depth and Thickness	45"		44"	SIDES									
	Face Angles	6"	3 1/2"	64"	SIDES				7/8"	4 3/8"				
	Lugs to Shell	6"	6"	44"										
	Back Bars	3 1/2"	3 1/2"	44"	AT LONG BHD & BILGE. ✓									
	CENTRE	5'-0"	5'-3"	44"	5" FLANGE & 3 1/2" x 44" FLAT E.W. (STIFFER) ✓									
	SIDES	12 x 3 1/2 x 3 1/2	44"	50"	" C AT EACH CORNER. ✓									
Spacing of Transverse Frames		13'-9"	11'-0"	13'-9"										
		BHD.	TRANS.	TRANS.	BHD.									
Longitudinal Beams of	Bridge Deck	6"	3"	34"					36" & 33"		12 x 37 1/2 x 3 1/2 x 3 1/2 x 50" E ✓			
	Upper	9"	3 1/2"	44"	IN WAY OF CARGO TANKS ✓				33"		33 x 42 6 x 3 1/2 x 64" O.A. ✓			
	Second										SINGLE, CENTRE & WINGS. ✓			
	Third													

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, &c., to be entered in their respective places provided for on the Report Forms.

NOTE.—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, &c., on the first page.

EQUIPMENT No 48389 ✓										LETTER df. ✓		ANCHORS. 28-15			
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
46576	1st Bower ...	81	3	21	✓	✓		59	10	0	0	81 1/4 ✓	BYERS STOCKLESS	✓	SUNDERLAND 9-10-44 F.W.D.
46572	2nd „ ...	81	2	0	✓	✓		59	10	0	0	81 1/4 ✓	„	✓	SUNOL. 9-10-44. F.W.D.
	3rd „ ...														
	Collective weight.	163	1	21								162 1/2 232			
59030.	Stream	30	2	16	✓	✓		29	1	3	14	23 1/2 (STOCKLESS)	STOCKLESS "QUICK GRIP"		CRADLEY HEATH 25-11-44 W.V.N.

CHAIN CABLES.

HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.	Length and Size per Table 53.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.	Breaking Test of Steel Wire.	Length and Size per Table 53.
	Length. Diam.	Statu- Break- ing.	Supplied.	Per Rule.					Length. Cir.	Tons.	Length. Cir.
3740	120 5/6 2 1/2	112 1/2 157 1/2	380-3-14	940	300 2 1/2	STUD KENORICK & MOLE	J.A.R. NETHERTON 15/5/44	TOWLINE...	130 5 1/2	84.4	130 5 1/2
3741	120 1/2 2 1/2	112 1/2 157 1/2	381-2-14	✓	2 1/2	"	J.A.R. NETHERTON 15/5/44	HAWSERS & WARPS	2/100 2 3/4	15.2	2/100 2 3/4
	24 1/33		EQUIPMENT AS				20 APRIL 1943.		2/100 2 3/4	15.2	2/100 2 3/4
Iron Stream & Chain or Steel Wire	120 4 3/4	✓	646	✓	120 4 3/4	FSWR	✓				

Steering Gear, Steam **DONKIN & CO LTD TELEMOTOR GEAR** ✓ **ALTERNATIVE AUX: Steering Gear, NONE.** ✓ **BLOCKS & TACKLE LEO TO WINCH ON POOP DECK.** ✓ **Windlass EMERSON WALKER.** ✓

Boats **2 STEEL MOTOR LIFEBOATS 28' x 8' 9" x 3' 8" = 50 PERSONS** ✓ **28' x 8' 9" x 3' 8" = 53** ✓ **24' x 8' x 3' 4" = 35 PERSONS.** ✓

Ceiling in Holds, thickness and material **NONE** ✓ **Cargo Batts, thickness, material and spacing NONE.** ✓ **STEEL O.T. COVERS - 40"** ✓

Cargo Hatchways. (Upper Deck) **18 OFF TO CARGO TANKS 4' 0" DIA. 3' 0" OPENINGS IN DECK.** ✓ **Thickness of Hatches N° 1 STEEL W.T. COVER 50" WITH 3 STIFFS** ✓ **SPACED 3' 0" APART 6' 3" x 44" OA. TOE E.W.** ✓

Size of No. 1 Hatchway (Forward) **9' 0" x 12' 0"** ✓ **No. 2** ✓ **No. 3** ✓ **No. 4** ✓ **No. 5** ✓ **No. 6** ✓

Number of Shifting Beams and/or Fore and Afters ✓

Builder's Signature

W. J. Butterfield

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel **Yes** ✓
 (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo **Yes** ✓
 The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point. **Fitted for burning Oil Fuel flash point above 150° F.** ✓
Boiler Room Deep Tank, cross Tanker, and Forward Deep Tanks. ✓

This ship has been built in conformity with the Society's Rules and Regulations and the Secretary's letters. The scantlings and arrangements are in accordance with, or equivalent to, those shown on the approved plans. ✓

The main cargo tanks, cofferdams, oil fuel tanks, double bottom tanks in engine space, deep tank under boilers, forward deep oil fuel tanks, fore and after peaks, and feed water tank have been tested to rule requirements with satisfactory results. ✓

The weather decks clear of the oil tanks, watertight doors, Poop front etc, have been tested with water from a hose and found tight. ✓

Steam and auxiliary steering gear, hand pumps to peak tops, windlass and winches, have been tested under working conditions and found satisfactory. The Freeboard markings have been cut in and verified. The workmanship and materials are good. ✓

The amount of Entry Fee £ 11 : 0 : 0
 Special Survey Fee.... £6 07 : 7 : 0
 FREEBOARD 19 : 0 : 0
 Travelling Expenses, if any £ : :
 SUPERVISION OF SPECIFICATION 151 16 9.

(Special notations, where part of class, to be stated.)
 BUTTS OF SHELL & UPPER DECK E.W.

I am of opinion the Vessel should be Classed **100 A.I.** ✓
 carrying Petroleum in Bulk, Longitudinal Framing at Bottom and at Deck, Fitted for Oil Fuel, Flash point above 150° F.

State whether the Vessel has been built under Special Survey **YES.**

Signature

Cyril B. Leaver. H. C. Young.
 Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to **Middlesbrough** ✓ **Date of issue 26/3/45** ✓
Committee's Minute ✓
Character assigned ✓

+100 A.I.

Carrying Petroleum in Bulk.

Lloyd's A & CP

+ LMC 12.44

F.D. C.L.

write note.

" Hpl

note for S.R.L. (hom).

Fitted for oil fuel 12.44 F.P. above 150° F

2 W.T.B. 490 lb. (Spt. 475 lb)

2 D.B. 180 lb.

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

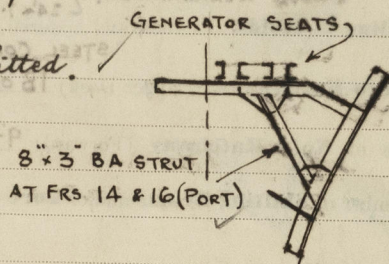
REPORT N° 17594	EMPIRE BOUNTY	FURNESS S.B. CO LTD	YARD N° 356	SISTER VESSEL
" 17621	" LAW	"	" 357	"
" 17674	" MILNER	"	" 358	"
" 17701	" PALADIN	"	" 359	"
" 17736	" PROTECTOR	"	" 360	"

Fore Peak:- additional stiffening fitted in Fore Peak in accordance with amended plan of the 2 April 1944. Two tieplates fitted on each stringer N° 2, 3, & 4. and 3 intermediate. Assie Comp:- The Assie compartment made common (breasthooks fitted) to Deep Tank N° 2 (Frs 162-170) by lightening holes in bulkheads; openings in deck and shell efficiently plated over and tested on completion and found tight.

Generator Flat aft:- additional stiffening:- Each generator is fitted on two 8" x 3 1/2" I girders running F & A. and E.W. to tank top. Diagonal struts, similar to those fitted in N° 356-7-8-9-60, fitted in Feed water tank, under centre of span from beams to main frames at Frs 14 & 16 Port Side.

Steering Engine Seating & Bedplate:- additional tripping brackets and checks fitted.

Compressor Flat:- Extra stiffening has been fitted on two of the F & A beams under the compressor in the Engine Room. Port Side 5/8" x 1/2" Flat E.W. to beam.



Particulars of Electric Welding (see letter 20-4-43)

Rudder, all shell and Upper Deck Butts, Upper Deck seams in way of bearings aft, Forecastle Deck butts, Poop and Bridge Deck butts and seams.

Stringers to Bulkheads, in cargo tanks, Longitudinal and Transverse Bulkheads in main cargo tanks (Bnos. 54 to 147) fabricated in large panels by Unionmelt welding and E.W. direct to shell and Upper Deck. E.R. & B.R. Tank Tops.

All with approved Electrodes.

SPECIAL NOTATIONS:- Either as part of the vessel's class or for record in the Register Book

bruiser stem, Wireless, Direction finding apparatus, Echo sounding, Gyro compass, Butts of shell and Upper Deck E.W.

Particulars of Drop Test of Cast Steel Anchors, viz.:- Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower 46-1-12 HEAD. A.E.G. N° 5744 31-3-44.
	2nd " 46-2-7 HEAD. A.E.G. N° 5711 24-3-44.
	3rd " 17-0-0 HEAD. A.E.G. N° 6536 22-9-44. (STREAM ANCHOR)

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 122 ft., R.Q.D. ✓ ft., Bridge 44 ft., Forecastle 48.75 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

No. and Material of Decks 1 DK. (STL) OVERALL LENGTH. 492'-5" ✓

Official No. 180034. Signal Letters Is bottom of vessel coated with cement No if not give

particulars of composition CEMENT IN BOTTOM OF FORE & AFT PEAKS, & E.R. WELL; CEMENT WASH IN F & A PEAKS N° 3 WING TANKS (P&S). COATED WITH TANCTECTOL (2 COATS) COFFERDAMS & F.W. TANKS.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. SALT Tons.	Where Fitted.	*Length. Feet.	Water Capacity. SALT Tons.
Double bottom, aft,	NONE	✓	Fore peak tank,	24.75	57
Double bottom, under Engines and Boilers,	NONE	✓	After peak tank, FEED WATER	16.00	123
Double bottom, if under Engines only, F.W. OVERFLOW O.F.	22'-6"	59.	Deep tank, aft, FEED WATER	122.50	155
Double bottom, if under Boilers only, SEE DEEP TANK	15'-0"	✓	Deep tank, forward, N° 1, 31.5' = 612 DTs	249.50	810 ✓
Double bottom, forward,	NONE	✓	Other tanks, if fitted, DEEP TANK UNDER BOILER ROOM	27.50	295 ✓
Total capacity of double bottom		59.	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

TANKS IN WAY OF TUNNEL 450 TONS

Order for Special Survey No. 1553

Date 16-3-43

Dates of Surveys held while building

1943 June 10, 11, 16, 25, July 20, Aug. 9, 26, Sept. 1, 7, 8, 10, 13, 15, 21, 22, 23, 24, 27, 29, Oct. 1, 4, 6, 8, 11, 22, 25 (2), 26, 28, 29, Nov. 1, 3, 4, 7, 8, 11, 18, 22, 23, 24, 25, 26, 29, Dec. 3, 7, 13, 14, 15, 16, 20, 21, 22, 23, 29, 30, 1944 Jan. 6, Feb. 8, 23, March 3, 10, 17, 30, 31, April 6, 11, 14, 18, 27, 28, May 12, 17, 18, 19, 22, 23, 25, 26, 30, June 5, 9, 12, 14, 15, 19, 20, 21, 22, 23, 28, 29, 30, July 3, 14, 17, 24, 25, 26, 28, Aug. 10, 11, 14, 16, 17, 18, 19, 21, 22, 23, 24, 25, 28, 29, 30, 31, Sept. 1, 4, 5, 7, 8, 12, 13, 14, 15, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, Oct. 2, 3, 4, 5, 6, 10, 11, 17, 20, 24, 31, Nov. 2, 3, 4, 7, 8, 9, 10, 13, 20, 21, 22, 27, 28, 30, Dec. 5, 6, 7, 8, 11, 12, 13, 14, 15 (2), 18, 19, 20.

Total No. of Visits 172