

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

No. 17674

Survey held at HAVERTON HILL-ON-TEES. Date First Survey 4TH AUGUST 1942 Last Survey 21ST JUNE 19 44

On the (Ship) Machinery Aft and S/S EMPIRE MILNER. MACHINERY AFT SINGLE SCREW TURBINE TANKER.
(Single Main Propeller Screw)

State Type (~~Full Scantling, Complete Superstructure~~) **FULL SCANTLING.**
with or without ~~Transverse Opening~~

State Type of Erections POOP, BRIDGE & FILE

TONNAGE under } 7015.52
Tonnage Deck... }

CLASS 100 A.1. State if with freeboard
CARRYING PETROLEUM IN BULK. as condition of Class
FRAMING AT BOTTOM & AT DECK

No. *Built at* HAYERTON 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)

465-0

Launched 9-2-44/ Yard No. 358

Total 7015.52

Breadth (*greatest moulded*)

..B 64'-0"

Builders FURNESS S.B. CO LTD

Gross Tonnage 8134.67

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"
TO UPPER D

Owners MINISTRY OF WAR TRANSPORT

Register Tonnage 4603.53

1st Longitudinal Number (L \times D)..... = 16100 ✓

Managers **BRITISH TANKER CO. LTD.**

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

REGISTERED DIMENSIONS.
FEET.

Framing Depth "d," at middle of length. See
Sec. 3 (17)

Residence LONDON

Length 473.8.

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

13.10 ✓

Port of Registry **MIDDLESBROUGH.**

Breadth 64.3

STEEL COATING Do. Long Bridge to top of keel

If surveyed while building, afloat, ~~and~~ in dry dock

Depth 35.4

Draught Moulded OPENINGS... (A... DECK).....

28' - 4 1/2" ^{ACE} SURVEYED WHILE BUILDING & AFLOAT.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	33' 30" ✓	
" " from $\frac{3}{8}$ length to Collision bulkhead.....	33' 27" ✓	
" " in peaks.....	24' ✓	
SIDE FRAMING.		
Frame Amidships, Angle, \angle or \square	11' 3 1/2" 44" ✓	
" " Extends up to	UPPER DECK.	
Reversed Frame Amidships, Angle	✓	
" " Extends up to	✓	
Depth of Framing Girder.....	11' ✓	
Frames in Uppermost Continuous 'tween POOP Decks, Angle, \angle or \square	7' 3" 38" 5 EVERY ✓	
" " Second 'tween Decks, Angle, \angle or \square	✓	
" " Third	✓	
Framing in Peaks, Angle, \angle or \square	9' 3 1/2" 38" ✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8" C 4 7/8" ✓	
State if Frame Joggled	YES.	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars)	SIDE STRINGERS & WEB FRAMES	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	STRINGERS & BEAMS IN FORE PEAK.	
	SHELL B & C = 79" ✓	
	FRS. 134-147 LONG BACK BARS 3 1/2" 3 1/2" 44" ✓	
	MAIN FRS. 149-170 = 6" 6" 44" ✓	
SINGLE BOTTOM. IN DEEP TANK FORWARD.		
Floors, Depth and thickness at mid-line in Holds	48" x 40" ✓	
Height of Brackets at side above base line at toe of flange	6'-0" BELOW N° 3 STRINGER 44" ✓	
Middle Line Keelson, on Floors, Angle, \angle or \square	✓ BHD. FORW OF 149 FR.	
IN CARGO TANKS \angle or \square	48" x 42" ✓	
" " " Through Plate on Intercoastal Plate	3 1/2" 3 1/2" 42" DOUBLE ✓	
" " " Foundation Plate on Floors	4 4 59 DOUBLE ✓	
" " " Flat Plate Keel Angles	STRAP 36" x 50" ✓	
Side Keelsons, No. each side	FORE & AFT	
" " thickness of Intercoastal Plate	BULKHEADS ✓	
" " Angles	✓	
DOUBLE BOTTOM. IN ENGINE ROOM.		
Solid Floors, thickness and spacing EVERY:	42" C 30" ✓	
" " Are Frame and Reversed Frame joggled	FRAMES ONLY ✓	
Bracket Floors, breadth and thickness at middle line.....	✓	
" " breadth and thickness at margin plate.....	✓	
Bracket Floors, Frame	✓	
" " Reversed Frame	✓	
" " Vertical Struts	✓	
Centre Girder, depth and thickness amidships	M.S. 47' 54" 48" ✓	
" " top Angles	D. 3 1/2" 3 1/2" 48" ✓	
" " bottom Angles	D. 4" 4" 58" ✓	
Side Girders, No. each side and thickness	M.S. 20 42" & 45" PER PLAN.	
Margin Plate depth (excl. of flange) and thickness	TANK TOP LEVEL ✓	
" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	TO MARGIN ANGLE ✓	
" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	IN MACHINERY SPACE ✓	
" " Gussets, spacing and scantling abaft 1/4 len. from stem	✓	
" " Gussets, spacing and scantling forward 1/4 len. from stem	✓	
Tank Side Brackets, height above base line IN M.S. at toe of Frame and thickness	3'-0" x 44" ABOVE TANK TOP. ✓	
INNER BOTTOM PLATING. M.S.		
Thickness of Middle Line Strake	52" ✓	
Thickness of remainder in MS M.S.	52" ✓	
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. ✓	
BEAMS. IN WAY OF MACHINERY SPACE.		
Uppermost Continuous Deck, amidships	19" 3 1/2" 40" EVERY ✓	
" " in way of Bridge, Angle, \angle or \square	18" 3" 38" EVERY ✓	
Spacing	LONG BEAMS IN WAY OF OIL TANKS (SEE SEPARATE SHEET) ✓	
Second Deck, \angle or \square	7" 3" 40" ✓	
O.T. FLAT FORWARD	27" ✓	
Third Deck, amidships, Angle, \angle or \square	✓	
Spacing	✓	
Fourth Deck, amidships, Angle, \angle or \square	✓	
Spacing	✓	
Poop Deck, \angle or \square	9" 3 1/2" 37 1/2" ✓	
Spacing	EVERY ✓	
Bridge Deck, Angle, \angle or \square	LONGITUDINAL BEAMS. SEE SEPARATE SHEET. ✓	
Spacing	✓	
Forecastle Deck, \angle or \square	9" 3 1/2" 37 1/2" ✓	
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			Stringer Plate, breadth and thickness in way of Bridge	✓	
in 'tween Decks, Size and Spacing			Thickness of Plating	38" (46" UNDER HATCH).	
CENTRELINE BULKHEAD IN DEEP TANK FORWARD.	40"	41" approved	Thickness of Plating	63" x 46"	
VERTICAL PLATING			Thickness of Plating within line of openings	✓	
" STIFFENERS	11" 3 1/2" 44"	EVERY	If Sheathed, material and thickness	NONE.	
"			Third Deck.		
LONGITUDINAL O.T. Bulkhead. P & S.			Stringer Plate, breadth and thickness		
Stiffeners and Spacing	11" 3 1/2" 42" @ 33"		If Plated, state thickness		
Plating, thickness of	41"		Fourth Deck.		
BOTTOM COAMING	52"		Stringer Plate, breadth and thickness		
STRINGERS AND DECKS.			If Plated, state thickness		
Uppermost Continuous Deck.			Poop Deck.		
Stringer Plate, breadth and thickness in Wells	92 1/2" x 80"		Stringer Plate, breadth and thickness	60" x 38"	
DECK & STRINGER PLATE BUTTS E.W. SINGLE VEE.			BUTTS & SEAMS E.W. SINGLE VEE.		
AT BREAK OF POOP & in way of Bridge	96"		Plating, thickness	30" EXPOSED 26" INSIDE	
" Angle in Wells	6" 6" 80"		Bridge Deck.		
Thickness of Plating abreast Deck openings in way of Wells	74"		Stringer Plate, breadth and thickness	75" x 38"	
Thickness of Plating abreast Deck openings in way of Bridge	NO OPENINGS		BUTTS & SEAMS E.W. SINGLE VEE.		
Thickness of Plating within line of openings	64", 74", 6"		Plating, thickness	34"	
If Sheathed, material and thickness	NONE.		Forecastle Deck.		
Second Deck. O.T. FLAT FORWARD OF 149.			Stringer Plate, breadth and thickness	40" x 38"	
Stringer Plate, breadth and thickness	48" x 38"		BUTTS E.W. SINGLE VEE.	36"	
			Plating, thickness	50" UNDER WINDLASS.	

SHELL PLATING.

SCANTLINGS.					RIVETING.				
STRAKES.	AS IN VESSEL.				EDGES. State if jogged?	BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.		No. of Rows of Rivets.	Rivets.		
FLAT PLATE KEEL	53 1/2"	1.00"	.84"	.84"	2	1 1/8"	4 1/2"	5	1 1/8" 4 3/4" LAPPED
DBLG. (if any)									
BOTTOM PLATING, No. of Strakes	4	.72"	.51"	.63"	2	7/8"	3 3/8"	4	7/8" 3 1/2" LAPPED.
BILGE PLATING, No. of Strakes	1	.72"	.51"	.63"	2	7/8"	3 3/8"	4	7/8" 3 1/2" LAPPED.
SIDE PLATING, No. of Strakes	3	.81"	.66"	.48"	2	7/8"	3 1/4"	4	7/8" 3 1/2" LAPPED.
UPPER DECK, Sheer-strake in Wells	81"	.92"	.48"	.48"	1	3/4"	3"	5	1" 4 1/2" LAPPED.
UPPER DECK, Sheer-strake in Bridge	81"	.92"	.48"	.48"	2	1"	3 3/4"	4	7/8" 3 1/2" LAPPED.
STRAKE BELOW Sheer-strake in Wells	81"	.72"	.48"	.48"	2	1"	3 3/4"	4	7/8" 3 1/2" LAPPED.
STRAKE BELOW Sheer-strake in Bridge	81"	.72"	.48"	.48"	2	1"	3 3/4"	4	7/8" 3 1/2" LAPPED.
POOP SIDE PLATING	2	.50" ENDS	.40"	.40"	1	3/4"	3"	2	3/4" 2 5/8" LAPPED.
BRIDGE SIDE PLATING	2	.44"			1	3/4"	3"	2	3/4" 2 5/8" LAPPED.
FORECASTLE SIDE PLATING	2	.44"			1	3/4"	3"	2	3/4" 2 5/8" LAPPED.

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel —	16 TO UPPER DECK.
Extending to Upper Deck (Sec. 3 c)	ALL EXTEND TO UPPER DECK.
Deck next below	ALL EXTEND TO UPPER 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" x 2 1/2" L.W.L. .64"	CAST STEEL	1 1/2" x 1 1/2"		
STERN FRAME				
Propeller Post	CAST STEEL	1 1/2" x 1 1/2"		
Rudder	CAST STEEL	1 1/2" x 1 1/2"		
Speed of Vessel 15 KNOTS.				
RUDDER—Type Double Plate Stream Lined				
A x D 68G-375				
Diam. of head	FORGED STEEL	13 3/4"		
Mainpiece at top pintle	COUPLING & BOTTOM PIECE CAST STEEL			
heel	CAST STEEL			
how constructed	BUILT UP & E.W.			
double plate	52"			
coupling	6-3 3/4" DIA.			
horizontal	FITTED STEEL BOLTS			

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
CENTRE TANKS. VERT. COAMING	.41"	11" x 3 1/2" x 42"	24"	2" x 10" x 42"	9" x 3"
MIDSHIP BULKHEAD	.52"	UPPER STRINGER	9" x 3 1/2" x 50"	FACE BAR	11" x 9"
WING TANKS	.41"	LOWER STRINGER	10" x 3 1/2" x 52"	FACE BAR	11" x 9"
"	.52"	UPPER STRINGER	11" x 3 1/2" x 42"	FACE BAR	11" x 9"
"	.52"	LOWER STRINGER	12" x 3" x 40"	FACE BAR	11" x 9"
O.T. FLAT TO UPPER DECK	.28"	5" x 3" x 44" OA	28"	8" x 3" x 40"	FACE BAR
N° 170 CHAIN LKR. BTM. TO O.T. FLAT	.30"	6" x 3" x 34"	24"	NONE.	6" x 0"
COLLISION (in Hold)	.46"-.33"	9" x 3 1/2" x 38"	24"	24" x 40" PLATE	10" x 3 1/2" x 46"
W.T. FLAT TO UPPER DK.	.30"	6" x 3" x 30" OA	24"	24" x 40" PLATE	6" x 0"
AFTER PEAK TO W.T. FLAT, N° 9	.44"-.30"	7" x 3" x 34"	24"	10" x 3 1/2" x 46"	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, SKINNINGROVE, CONSETT.	
	Has the Steel been tested as required by the Rules?	YES.

EQUIPMENT No 48389.✓										LETTER d f.		ANCHORS. 2, B. 1, S.			
Number of Certificate.	Anchors.	WRIGHT, 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.			
45029	1st Bower ...	82	0	0	✓	✓	✓	59	10	0	0	81¼✓	✓	STOCKLESS.	R.J.V. SUNDERLAND 15-1-44.
44979	2nd „ ...	81	3	0	✓	✓	✓	59	10	0	0	81¼✓	✓	„	„ R.J.V. 5-1-44.
	3rd „ ...														
	Collective weight.	163	3	0	✓	✓	✓					162½✓			
2414	Stream	23	2	14	5	3	16	23	11	3	14	23½✓	✓	IRON STOCK	S.TAYLOR & SONS, NETHERTON. 10-11-43.

CHAIN CABLES.										HAWERS AND WARPS.						
Number of Certificate.	Length and size supplied.		Test per Certificate. Stain- Break- tory.	WEIGHT OF CHAIN CABLE.		Length and Size per Table 53. Length. Diam.	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.		Supplied.	Per Rule.						Length.	Ins.		Length.	Ins.	Length.
3593	300	2 ³ / ₁₆	120 ⁶ / ₁₀	777-1-7	940	300	2 ¹ / ₂	TAYCO S. TAYLOR & SONS NETHERTON STUD LINK. BRIERLEY HILL 22-12-43 J.A.R.		TOWLINE...	130	5 ¹ / ₂	84.4	130	5 ¹ / ₂	
				EQUIPMENT AS PER	LETTER	23-7-42 &	16-11-42.			HAWERS & WARPS }	2/100	2 ³ / ₄	15.2	2/100	2 ³ / ₄	
										"	2/100	2 ³ / ₄	15.2	2/100	2 ³ / ₄	
Iron Stream Chain or Steel Wire }	120	4 ³ / ₄	✓	64.6	✓	✓	120	4 ³ / ₄	6/24 F.S.W.R.	✓						

Steering Gear, Steam DONKINS & CO LTD TELEMOTOR GEAR. ✓										ALTERNATIVE Steering Gear, W AIX. BLOCKS & TACKLE LED TO WINCH ON POOP DECK. ✓					
2 STEEL MOTOR LIFEBOATS 26'x8'6" 3-75.										Windlass TYNE METAL CO LTD HEXHAM. ON TYNE. ✓					
Boats 2 STEEL LIFEBOATS 26'x8'4" 3-6 Steering Chains, Size and Test										NONE. ✓					
Ceiling in Holds, thickness and material										NONE ✓					
Cargo Hatchways. (Upper Deck) 18 OFF TO CARGO TANKS 4'-0" DIA OIL TIGHT (3'-0" OPENINGS IN DECK) ✓										Thickness of Hatches N° 1 STEEL W.T. COVER .50 WITH 3 STIFFENERS SPACED 3'-0" APART 6"x3"x44" 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 *R Boardman* For FURNES SHIPBUILDING CO LTD

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 ✓ 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, levers Bunker 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 fore 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.		Fees applied for, 12-7-1944		(Special notations, where part of class, to be stated.) BUTTS OF UPPER DECK & SHELL BUTTS AT FORE END E.W.					
Special Survey Fee.... £605 : 1 : 3.		Received by me, 19		I am of opinion the Vessel should be Classed + 100 A.1.					
FREEBOARD 19		OVERALL LENGTH 19		carrying Petroleum in Bulk, Longitudinal Framing at Bottom & at Deck, Fitted for Oil Fuel, Flash Flash Point above 150°F.					
Travelling Expenses, if any £		SUPERVISION OF SPECIFICATION. 151 5 4.		Signature G. B. Young					
State whether the Vessel has been built under Special Survey yes.									
Certificate to be sent to MIDDLESBROUGH Date of issue 11/8/44									
Committee's Minute									
TUES. 25 JUL 1944									

+100A P. Carrying Petroleum in Bulk
 Fitted for Oil Fuel 6.44 J.P. above 150°F
 Lloyd's A.C.P. +LMC 6.44
 2 MTD 490 lb (1475 lb)
 200 180 lb © 2020
 30 Cl.
 Lloyd's Register Foundation

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^o 17594 "EMPIRE BOUNTY." FURNESS S.B.C. LTD. YARD N^o 356. SISTER VESSEL.
" 17621 "EMPIRE LAW" " " " 357. " " " 358.

Additional stiffening fitted in Fore Peak in accordance with amended plan of the 25th April 1944 two tieplates fitted on each stringer N^os 2, 3 & 4, and three intermediate breasthooks fitted. Extra stiffening has been fitted on two of the fore and aft beams under the compressor in the engine room (Port side) 5' 4" x 1/2" FLATS E.W.

Part of the longitudinal bulkheads in the cargo tanks have been fabricated by The Bonnett Iron Co., Ltd., & R. Dempster & Sons, Ltd., Elland.

Particulars of Electric Welding:

Rudder, all upper deck butts, upper deck seams in way of basings aft. Stringers to bulkheads in cargo tanks, Deckhouses, all shell butts forward of Frame N^o 135, Longitudinal Bulkheads to upper deck, Forecastle deck butts, Poop deck butts and seams, Bridge deck butts and seams. With approved electrodes.

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

Cruiser Stern, Wireless, Direction finding apparatus, Echo sounding, gyro compass, Butts of upper deck E.W. Butts of shell plating forward of frame N^o 135 E.W.

Particulars of Drop Test of Cast Steel Anchors, viz.:—
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower	48-1-20	J.H.J.	N ^o 5987.	26-11-43.
2nd "	46-0-10	J.H.J.	N ^o 5354.	30-11-42.
3rd "				

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 R.D., this should be distinctly stated

No. and Material of Decks

1 DK. (STL)

OVERALL LENGTH 492'-5"

Official No. 169143.: Signal Letters

Is bottom of vessel coated with cement No.

if not give

particulars of composition BOTTOM OF FORE & AFT PEAKS, E.R. WELL CEMENTED; CEMENT WASHED IN F. & A. PEAKS, 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,	16.00	123
Double bottom, if under Engines only, F.W. OVERFLOW O.F.	10'-0"	59	Deep tank, aft,	22.50	155
Double bottom, if under Boilers only, SEE DEEP TANK	15'-0"	✓	Deep tank, forward,	49.50	804
Double bottom, forward,	44'-6"	✓	Other tanks, if fitted, DEEP TANK UNDER BOILER RM.	27.50	295
	NONE	✓	(If necessary, furnish further information by sketch.)		
Total capacity of double bottom		59			

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

Order for Special Survey No. 1551

Date 29-6-42

Dates of Surveys held while building

1942, Aug. 4, 11, 21, Sept. 10, Nov. 26, 1943, Jan. 27, March 2, 3, 8, 22, 29, 31, April 2, 12, 15, 21, 22, May 5, 25, June 9, 10, 11, 15, 16, 17, 18, 25, 28, 29, July 1, 2, 7, 8, 12, 14, 16, 20, 21, 22, 23, Aug. 3, 5, 9, 20, 23, 25, 26, 30, 31, Sept. 1, 13, 21, 22, 28, Oct. 4, 6, 7, 8, 11, 12, 13, 15, 16, 20, 21, 22, 23, 26, 27, 29, Nov. 1, 3, 4, 5, 6, 9, 10, 11, 12, 16, 23, 30, Dec. 2, 9, 10, 17, 20, 21, 23, 28, 29, 30, 1944, Jan. 3, 4, 5, 6, 7, 10, 12, 13, 14, 20, 24, 25, 26, 27, 31, Feb. 7, 9, 10, 15, 16, 22, March 2, 21, April 4, 5, 14, 19, 24, 26, 27, May 1, 10, 19, 23, 24, 25, 26, 29, June 2, 3, 7, 9, 12, 13, 17, 19, 20, 21, 22, 23, 26, 27, 28

Total No. of Visits 150

Rpt. 1*. FURNESS S.B.C. YARD N° 358.

5/8" EMPIRE MILNER. PARTICULARS OF LONGITUDINAL FRAMING.

Mod. 7p2. 17674

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 $\frac{1}{2}$ L or C	5	7	3	3/8				3/4	4 1/2		7	7/8
Frames in Bridge 'tween Decks ...													
Frames from Uppermost Continuous Deck No. 1													
" 2													
" 3													
" 4		TRANSVERSE											
" 5		FRAMING											
" 6		AT											
" 7		SIDES.											
" 8													
" 9													
OUTBOARD		12	3 1/2	50					7/8	5		13 @ 3/8" BMD.	14 To B 7/8
"		17 x 4 x 4	64	68				HEEL OF BARS E.W. FOR 5'-6" FROM BMD:	7/8	5		11 @ 3/8" TRANS	16 To L 7/8
LONGITUDINALS								EACH END IN LIEU OF BACK BARS.				13 @ 3/8" BMD.	16 To B 7/8
ON BOTTOM								EXCEPT N°6 CENTRE TANK.				11 @ 3/8" TRANS	20 To L 7/8
ONLY.								WITH 3 1/2" x 3 1/2" x .44" BACK BARS					
"								IN N°6 CENTRE TANK FRAMES 134-147.					
"													
"													
Spacing of Longitudinal Frames		Amidships	33"										
		At Ends	33"										
Double Bottoms		Tank Top Longitudinals											
L or C		Bottom											
Spacing of Longitudinals		Amidships											
		At Ends											
Transverses.													
IN BRIDGE.		Depth and Thickness	15	38									
Side		Face Angles	3	3	3/8								
(in 'tween Decks)		Lugs to Shell*	3 1/2	3 1/2	3/8							3/4	3 3/8
		Depth and Thickness	37 1/2	42									
Side		Face Angles	6	3 1/2	64	QA.							
(in Hold)		Lugs to Shell*	3 1/2	3 1/2	42	QA.						7/8	4 7/8
		Depth and Thickness	6	3 1/2	62	QA.							
		Face Angles	6	3 1/2	64	SIDES.							
Bottom		Lugs to Shell*	6	6	44							7/8	4
		Back Bars	3 1/2	3 1/2	44							7/8	4 3/8
		Centres	5'-0" x 5'-3" x .44"	5'-0" x 3'-2" x .44"	QA. STIFFERS								
		Brackets	12 x 3 1/2 x 3 1/2	56	AT EACH CORNER.								
Spacing of Transverse Frames		State if joggled											
			13'-9"	11'-0"	13'-9"								
			BMD.	TRANS.	TRANS.	BMD.							
Longitudinal Beams of		Bridge Deck	6	3	34								
$\frac{1}{2}$ L or C		Upper	9	3 1/2	44			IN WAY OF CARGO TANKS					
		Second											
		Third											

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

1m.237. T.

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

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+100A. Carg. ? in Bulk