

No 3359

RETAIN

THE BRITISH CORPORATION REGISTER
OF SHIPPING AND AIRCRAFT

Report No. 3593 No. in Register Book 5312

W/n "B.P. DISTRIBUTOR"

Ship EMPIRE TROTWOOD

Builder Grainger & Dryd. Co. Ltd.

Yard No. 455

HULL AND EQUIPMENT



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004502-004511-0022

THE BRITISH CORPORATION REGISTER
OF SHIPPING AND AIRCRAFT

Report No..... No. in Register Book.....

Received at Head Office.....14/7/44

Surveyor's Report on the Construction of the

~~Single Triple~~ ~~Twin Quadruple~~ Screw STEAMSHIP. EMPIRE TROTWOOD.

Surveyor's District

Glasgow.

Builders

The Grangemouth Dockyard Co. Ltd.

Yard No.

455.

Where Built

Grangemouth.

Owners

M.O.W.T.

Port of Registry

Grangemouth.

Flag

British.

Managers

Messrs F.T. Everard & Son.

Manager's Address

6-8 Fenchurch Bldg. London.

Official No.

180356.

Rig

Single Mast.

Code Letters

Scantling Sections approved by Committee

To be classed

B.S. 7. (Bulk oil Carrier)

With a Freeboard of

11 1/2

Date of First Visit

19. 10. 43.

Date of Last Visit

17. 5. 44

Total number of Visits

39.

Keel Laid

19. 10. 43

Launched

29. 2. 44

Date of Build

15. 5. 44

Date of this Report

5. 7. 44

PARTICULARS.

Registered Dimensions

193' x 30.7' x 14.1'

Tonnages—

Tons.

Under Tonnage Deck

In 'Tween Decks

In 'Tween Decks

In 'Tween Decks

In Turret

Suez Canal Tonnage—

Under Deck Tonnage

558.30

Tonnage in Poop

80.10

" R.Q.D.

" Bridge

" Forecastle

" Hatchways

TRUNK

" Deck Houses

" Chart Houses

" Light and Air Spaces

90.08

18.17

46.23

4.58

Gross Tonnage

797.46

Deductions—

Crew Space

Engine Room %

Light and Air

Navigation Spaces and Stores

Peak Tanks

Deep Tanks

111.78

255.19

50.32

Net Registered Tonnage

380.17

Date of Expiry of Vessel's B.O.T. Passenger Certificate

PARTICULARS—Continued.

Moulded Dimensions

190'0" x 30'6" x 13'11 7/8"

Height of Superstructure

Proportions $\frac{L}{B} =$ $\frac{L}{D} =$ $\frac{D}{B} =$ $\frac{L}{D \text{ (to top of Superstructure)}} =$

Camber

Rise of Floor

Number and Description of Decks for Register Book

Number of Decks under Freeboard Deck

" " above " "

Heights of 'Tween Decks

Particulars of Superstructures

Distance between Bulkheads of Superstructures

Freeboard Ratios of Superstructures

Watertight Bulkheads.—State Number of Frame and Deck to which each Bulkhead extends—See page 5.

Bulkhead, Frame No.	extends to	Deck.	Bulkhead, Frame No.	extends to	Deck.
Fore Peak	"	"	No. 8	"	"
No. 1	"	"	" 9	"	"
" 2	"	"	" 10	"	"
" 3	"	"	" 11	"	"
" 4	"	"	" 12	"	"
" 5	"	"	" 13	"	"
" 6	"	"	" 14	"	"
" 7	"	"	After Peak	"	"

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PARTICULARS—Continued.

State which Bulkheads enclose Machinery Space

State Number of Bulkheads to be recorded as effective

Number and Length of effective Watertight Compartments beginning Forward

Number of Non-Watertight Bulkheads

Double Bottom

Extends from Frame

to Frame

Length and Capacity of Tanks

No. 1	Feet	Tons.	Fore Peak	Feet	Tons.
" 2	"	"	Aft Peak	"	"
" 3	"	"	Deep Tanks	"	"
" 4	"	"			
" 5	"	"			
" 6	"	"	Oil Bunkers	"	"
" 7	"	"			
" 8	"	"			
" 9	"	"			
" 10	"	"	Particulars of Oil Fuel Tanks in Double Bottom.		

State where Centre Girder Watertight

Sketch showing Arrangement of Bulkheads, Tanks, &c.

See R.B. for Emfs Bottom.



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SCANTLING

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SECTIONS.



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SKETCHES OF FORE AND AFTER PEAK STRUCTURE

WHERE DETAIL PLANS AS BUILT ARE NOT AVAILABLE.



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PARTICULARS OF SCANTLINGS, ETC.

Where it is subsequently stated in this report that any portion of the structure is in accordance with Plans, and particulars are therefore not detailed, the name of plan is to be entered in the appropriate place. Such plans should in all cases represent the structure as built.

All differences from approved Plans and/or the Rules are to be recorded in this report, together with any necessary explanatory Sketches.

Where no detailed Plan is on record, full particulars of Scantlings, Construction and Riveting are to be reported, in conjunction with such Sketches as are necessary for clearness.

Where riveting is in exact accordance with the approved Plans and/or Rules this is to be stated in each case, and particulars of any departure therefrom are to be detailed in all cases.

GENERAL.

MATERIAL.

In the case of **Steel Ships** state particulars of Parts where Iron is used *Rivip.*

In the case of **Wood Ships** state particulars of Wood used in different parts

In the case of **Reinforced Concrete Ships** state particulars of Concrete used in different parts and also Nature and Quality of Reinforcement

State, to the best of your knowledge, whether the Materials used have been tested, and are in accordance with the Rule requirements *Yes.*

Give particulars of all Tests carried out under your supervision or date of your Report thereon

See plan Bag.



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GENERAL—Continued.

KEELS, STEMS, STERN FRAMES, AND RUDDERS.

State particulars, which do not appear on reference Plans, of Dimensions; Scarphs of Bar Keels; Stems; Stern Frames; Butts of Flat Plate Keels; Connections at Heel of Stems and Stern Frames to Hull; Rudder Stocks, Couplings, Pintles, Gudgeons, Rudder Arms, Riveting; and whether forged or cast Arrangement and Scantlings of Spectacle Bossing or Propeller Brackets and state material.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.



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CENTRE KEELSONS (SINGLE BOTTOM).

State particulars, which do not appear on reference Plans, of Scantlings and Riveting, illustrated by Sketches of Construction, amidship, at ends, and under Boilers and Engines; of Connections to Keel; Horizontal Top Plates; Rider Keelson; Floor Connections and End Connections.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

SINGLE BOTTOMS.

State particulars, which do not appear on reference Plans, of Floors, Frames, Reverse Frames, Side Girders, Engine and Thrust Seats, Boiler Bearers, End Floors, Bossing, and Transom Floors.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.



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SINGLE BOTTOMS—Continued.

DOUBLE BOTTOM.

State particulars, which do not appear on reference Plans, of Scantlings and Riveting, illustrated by Sketches of Construction, of Centre Girders Amidships, at Ends, and under Boilers and Engines; End Connections; Manholes in Centre Girder and Compensation where fitted; Centre Girder where watertight; Scantlings, &c., of Solid Floors; Frames and Reverse Frames on Solid Floors; Stiffeners on Tank End Floors; Open Floors, extent and spacing; Open Floor Frames, Reverses, Struts, and Brackets; Tank Top Plating, Butts, and Seams; Sheathing; Margin Plates; Margin Brackets to hold Frames; Connection to Tank Margin and Frames; Gussets; Intercostal Girders, amidships, under Engines, Thrust, Boilers and Boiler Bearers; Arrangement and Spacing at Ends; Engine and Thrust Seatings; Stiffening under Wide Spaced Pillars and Air Pipes in each Compartment of Double Bottom.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

				Date.	Surveyor's Initial.
Eng. Room	No. 1 Compartment (forward) tested and found satisfactory			1.2.47	Rutt.
" 2 "	" "	" "	" "		
" 3 "	" "	" "	" "		
" 4 "	" "	" "	" "		
" 5 "	" "	" "	" "		
" 6 "	" "	" "	" "		



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DOUBLE BOTTOM—Continued.

State particulars, which do not appear on reference Plans, of all Framing in Holds; Bunkers; Boiler Space; Engine Space; Deep Tanks; at Tunnel Flats; also Connections at Head and Heel.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

These and the Plans in each Compartment of Double Bottom.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

HOLD FRAMES AND REVERSE FRAMES

State particulars, which do not appear on reference Plans, of all Framing in Holds; Bunkers; Boiler Space; Engine Space; Deep Tanks; at Tunnel Flats; also Connections at Head and Heel.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.



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HOLD FRAMES AND REVERSE FRAMES—*Continued.*

TWEEN DECK FRAMING.

State particulars, which do not appear on reference Plans, of Framing in various Tween Decks.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.



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WEB FRAMES AND SIDE STRINGERS.

State particulars, which do not appear on reference Plans, of Scantlings; Spacing; Attachments at Head

and Heel; Reverse Frames; Ends of Side Stringers; Beams at Heads of Web Frames.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

WEB FRAMES AND SIDE STRINGERS—Continued.



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HOLD KEELSONS AND STRINGERS.

State particulars, which do not appear on reference Plans, of Side Keelsons, Scantlings and Spacing Amidships,

E. & B. Space, and Forward, and Connections to Floor Plates; Side Stringers, Scantlings, Extent, Spacing;

Butts of Continuous Side Keelsons and Side Stringers; Connections to Bulkheads; Hold Stringers,

Scantlings, and End Connections

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

HOLD KEELSONS AND STRINGERS—Continued.



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BEAMS.

State particulars, which do not appear on reference Plans, of Spacing and Scantlings of Beams, Half Beams, Beam Knees and Lug Connections to Girders and Hatch Coamings on all Decks; Beams of Deep Tank Tops, Tunnel Tops, Bulkhead Recesses, Open Decks, Transom Beams, Wide Spaced Hold Beams, and Strong Beams in Machinery Space.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

BEAMS—Continued,



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STANCHIONS, PILLARS, AND GIRDERS.

State particulars, which do not appear on reference Plans, of number of Rows of Stanchions and where fitted ; distance out from Centre Line of Girders or Runners ; Spacing, Type, and General Scantlings of Stanchions, Pillars and Girders ; Attachment at Heads and Heels of Stanchions and Pillars ; Pillars in Engine Room ; Attachment of Girders to Bulkheads and at Hatch Corners, Supports under Bulkhead Recesses and Deep Tanks ; Supports at ends and corners of Deckhouses and Erections ; extent and details of Longitudinal Cargo Divisions.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

STANCHIONS, PILLARS, AND GIRDERS—*Continued.*

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WATERTIGHT BULKHEADS.

State particulars, which do not appear on reference Plans, of Watertight Bulkheads as given on page 3

Webs in Tween Decks above Bulkheads; Attachments; Sluice Valves and Cocks.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

(See also page 5)

WATERTIGHT DOORS

State particulars, which do not appear on reference Plans, of Watertight Doors, where situated, Type, where controlled from, Makers, Buttresses at Sides of Doors; particulars of Testing.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.



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WATERTIGHT BULKHEADS—TESTING.

State particulars and dates of tests of Watertight Bulkheads.

With Sinks.

WATERTIGHT BULKHEADS—TESTING—Continued.



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PANTING ARRANGEMENTS (OUTSIDE PEAKS).

State Particulars, which do not appear on reference Plans, illustrated by Sketches of Construction, of Scantling Arrangements, Heights of End Floors; Panting Beams and Stringers; Pillars; Shell Lugs on Stringers and Flats; Attachments of Stiffeners and Framing to Stringers.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

PANTING ARRANGEMENTS—Continued.



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SHELL PLATING

State particulars, which do not appear on reference Plans, of number of Strakes of Plating, average Length and Width Amidships; Thickness of Side Plating Amidships and at Ends; Bottom Plating Amidships, Ends, and Flat of Floor Forward; End Connections; Seam Connections; Construction at Breaks of Erections; Compensation in way of Cargo Doors, Sidelights and other Openings; Doublings where fitted; Forefoot Plate, After Hood Plating, Boss Plating; Sheerstrakes, Topside Plating, Garboard Strakes with Bar Keels; Gunwale Angles and Mouldings.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

SHELL PLATING—Continued.



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DECKS

State particulars, which do not appear on reference Plans, of which Decks are Weather Decks, Freeboard Decks, Second, Third, &c., and Platform Decks; Scantlings of Plating and Areas in square inches of Plating abreast Machinery Openings, Hatches Amidships and at Ends; Stringer Plates Amidships and at Ends; End Connections and Seam Riveting in each case; Doublings at Hatch Corners; Size of Corner Angles; Wood Sheathing and Deck Compositions; Watertight Cement Chocks on Freeboard Deck, whether Chocks are fitted in other Decks, and particulars of all Chocks fitted in each Deck and Flat; Rusted Iron Chocks, W.T. Collars, Coaming Angles and Mast Collars; Riveting of Coaming Angles, Gutter Angles, Chock Angles, and particulars of Water Testing of Decks

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Port Deck Abn tested 10-4-44

DECKS—Continued.



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CEILING AND SPARRING.

State particulars, which do not appear on reference Plans, of Close Ceiling and how fastened in Holds and Bunkers; if Tank Top Celled where Double Bottom is used for Oil Fuel; Sparring and how fastened in Holds, Tween Decks; Manhole Covers, and Protection.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

SUPERSTRUCTURES.

State particulars, which do not appear on reference Plans or L.L. 4 D. Form:— 1st Superstructure, Length and Height ; 2nd Superstructure, Length and Height ;
illustrate by Sketches of Cross Section through Superstructures; Coaming and Top Angles; Plating Amidships, at Ends; Riveting of Seams; Doublings at Windows and Doorways; Top Plating; Stiffening; Beams; Web Plates and Partial Bulkheads; Breaks in continuity; and Bulkheads at End of Erections on Freeboard Deck.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.



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SUPERSTRUCTURES—Continued.

HATCHWAYS AND OTHER DECK OPENINGS.

State particulars, which do not appear on reference Plans or L.L. 4 D. Form, of Dimensions of Openings in different Decks; Scantlings of Coamings; Coaming Angles; Side Stiffeners; Stays; Spacing and Scantlings of Hatch Webs; Hatch Covers; Details of Hatch Corner Construction; Mast Openings; Engine and Boiler Openings, and Casings and Companion Ways.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.



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DECK OPENINGS—Continued

MACHINERY SPACE AND TUNNEL.

State particulars, which do not appear on reference Plans, of Through Beams and Stanchions in Machinery Space; Engine Seating; Thrust Seating; Boiler Stools; Thrust Stools; Bossing Arrangements; Scantlings of Stiffeners; Plating and Coaming Angles of Tunnels and Tunnel Recesses; Escape Hatches; Stiffening of Tunnels under Stanchions; and particulars and dates of Water Testing Tunnels.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.



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RIVETING AND CAULKING.

ELECTRIC WELDING.

State particulars of Electrodes, Manufacturers, sizes of Electrodes, Voltage, Amperage, Rates of Deposit, &c., arrangements for skilled supervision of work in the Yard; Particulars of Tests, including Samples of work in Yard.

Portions of Structure where Electric Welding used, Thickness of Material Welded, Size and Types of Welds, Angles of Edges and Clearance of Base in Butt Welds, Depth and Width of Lap Welds, and Connections of Plates and Bars.

Lincoln Transweld.

*Structure as on previous ships
of same class.*



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ELECTRIC WELDING—Continued.

BULWARKS, PORTS, SCUPPERS, ETC.

State particulars, which do not appear on reference Plans or L.L. 4 D. Form, of Length and Height of Bulwarks; Freeing Port Area; Construction of Freeing Ports; Details of Gangway Doors, Scuppers from Watertight Decks; Soil Pipe Elbows below Freeboard Deck.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.



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BULWARKS, PORTS, SCUPPERS, ETC.—Continued.

VENTILATORS AND SIDE SCUTTLES.

State particulars, which do not appear on reference Plans or L.L. 4 D, Form, of Coaming Heights; Thicknesses; Deck Connections of Hold Ventilators on Weather Portions of Freeboard Decks; Bridge Decks; Forecastle and Poop Decks; Ventilators to Holds and Tunnels and Side Scuttles in Tween Decks; means of Closing.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Side Lights have tested. 10-4-44



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VENTILATORS AND SIDE SCUTTLES—Continued.

PUMPING ARRANGEMENTS.

State particulars, which do not appear on reference Plans, of Hand Pumps or Power Pumps and from which Deck they are operated; Hand Pump to Fore Peak, Drain Boxes and Tank Tops; Sounding Pipes, Testing of Pumps.

Are the Chambers of the Plunger Pipes Copper?

Is a Plate fitted under the Lower End of each Sounding Pipe?

Are Pump Chambers, Tail Pipes, and Rods protected by substantial Casings?

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

2 Hand pumps to Forepeak space.
Cable locker.



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CEMENTING AND PAINTING.

State if and where Portland or Bituminous Cement is used and how it is applied.

State particulars and Composition of Cement, Cement Wash, Paint, or Bitumen, in Tanks and elsewhere.

MASTS, SPARS, AND RIGGING.

Steam Vessels.—State particulars, which do not appear on reference Plans as to Heights, Diameters, and Scantlings of Masts; Derrick Loads and Outreaches; Scantlings and arrangements of Derrick Tables and Outriggers.

Sailing Vessels.—The same particulars as for Steam Vessels, where applicable, also particulars of Rigging, details of Canvas and Sail Area.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.



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State Equipment Numbers and corresponding Letter for Register Book.

Chain Cables, Stream Chains, Wires, &c.—State particulars of number of Certificates, where and when Tested, Length, Size, Weight, and Maker's Name.

Anchors.—State number of Certificates, where and when Tested, Weight of Head Shank and Stock, and Maker's Name and Type of Anchor.

Steering Gear.—Plans or Sketches showing arrangement and details of Steering Gear, including Auxiliary Gear, to be given, to include Diameter of Chains and Rods; Diameter and Scantlings of Quadrant; Diameter, Scantlings and Attachments of Quarter and Leading Blocks, Buffer Springs and Stretching Screws; Type and Make of Steering Gear and Control; Particulars of Relieving Tackle, Brakes, &c.; Particulars of Test Certificates for Chains, Rods, Stretching Screws, Buffer Springs, Spare Links, Shackles, &c.; state Spares provided; Particulars of Trials.

Windlass and Capstan.—State particulars of Type and Maker's Name and if satisfactory under trial.

Winches.—State Number, Size, and Type fitted.

Lifeboats.—Number and Dimensions,

Anchors & Cables:

"Byon: Incho. LPH-S. 45103. } Buoys. Stockless.
 " " LPH-S. 45104 }
 " LPH-CH 56494. Kedge Iron Stock.

Cables 178 1/2 fathoms 1 5/16 Stud link Iron Cable
 Spares 2 joining 7 1/2 End Shackles.

Steering Gear. Wilson Pine Stem Type
 by W. Harris & Co Greenock with aux.
 gear of wire pennant led thro deck sheaves
 & snatch blocks to stem capstan on
 off deck. Stem. & Aux. Trials satisfactory
 Selenator control by McTaggart Scott
 satisfactory. Friction Brake - no spare
 gear.

Windlass: Double Purchase steam
 windlass on Fore. Trials satisfactory.

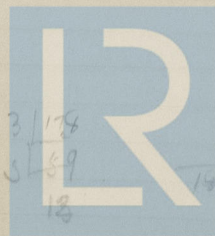
Warping Capstan. by J. Lynn & Sons
 Bd. on aft deck size 8" x 10"
 Trials satisfactory.

No. Winches.

Boats. 2 off. 22'6" x 7'4 1/2" x 3'05"
 22'6" x 7'4 1/2" x 3'10".

Fully equipped in acc. with latest
 M.O.W.T. Regulations and both
 fitted with inboard motor.

2 life Rafts 14 persons each.
 M.O.W.T. Requirements 5.



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EQUIPMENT—Continued.

DEEP TANKS, OIL TANKS, AND OIL BUNKERS.

State particulars, which do not appear on reference Plans, of Position and Arrangement; Scantlings of Plating, Stiffeners, Deck Girders, Wash Bulkheads and Plates; Top Plating; Frame Connections; Means to prevent Overloading; Height of Filling, Air and Sounding Pipes; in the case of **Oil Tanks**, give Density and Flash Points of Oils; Arrangements of Expansion Trunks, Cofferdams, and details of Ventilation; state Particulars of Packing used.

State Arrangements of Pump Rooms, means of keeping Low Flash Point Oil separate from other Oil, and provisions made where Low Flash Point Oils are used for Oil Fuel.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.



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DEEP TANKS, OIL TANKS, AND OIL BUNKERS—Continued.

		Test Head above Top of Tank.	Deflection at Full Tank.	Deflection with Test Head.	Date.	Initials.
No. 1 Tank, Port, Tested and found satisfactory.		6	-	-	23.2.44	R.H.
" Starb'd, " "		6	-	-	23.2.44	R.H.
2 " Port, " "		6	-	-	16.2.44	R.H.
" Starb'd, " "		6	-	-	18.2.44	R.H.
3 " Port, " "		6	-	-	21.2.44	R.H.
" Starb'd, " "		6	-	-	21.2.44	R.H.
4 " Port, " "						
" Starb'd, " "						
5 " Port, " "						
" Starb'd, " "						
6 " Port, " "						
" Starb'd, " "						
7 " Port, " "						
" Starb'd, " "						
8 " Port, " "						
" Starb'd, " "						
9 " Port, " "						
" Starb'd, " "						
10 " Port, " "						
" Starb'd, " "						
11 " Port, " "						
" Starb'd, " "						
12 " Port, " "						
" Starb'd, " "						

Alt Cofferdam	8'	-	-	7.2.44	R.H.
For "	18"	-	-	7.3.44	R.H.
Deep Tank	14'	-	-	28.2.44	R.H.
For Peak	8'	-	-	28.2.44	R.H.
Alt Peak	8'	-	-	14.2.44	R.H.
Port Bunker	6'	-	-	9.2.44	R.H.
Starb'd Bunker (Cr.)	6'	-	-	14.2.44	R.H.
Settling Tank	6'	-	-	9.2.44	R.H.

DEEP TANKS, OIL TANKS, AND OIL BUNKERS—Continued.

State which Tanks are used as Oil Fuel Bunkers.

Give position and size of Air Pipes or Ventilators from each Tank.



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SURVEYORS' NOTES—Continued.

1. The first of the two is a small building, about 10 ft. long and 6 ft. wide, with a gable roof. It is built of brick and has a small chimney on the side. It is used for storing tools and materials.

2. The second is a larger building, about 20 ft. long and 12 ft. wide, with a gable roof. It is built of brick and has a small chimney on the side. It is used for storing tools and materials.

3. The third is a small building, about 10 ft. long and 6 ft. wide, with a gable roof. It is built of brick and has a small chimney on the side. It is used for storing tools and materials.

4. The fourth is a larger building, about 20 ft. long and 12 ft. wide, with a gable roof. It is built of brick and has a small chimney on the side. It is used for storing tools and materials.

5. The fifth is a small building, about 10 ft. long and 6 ft. wide, with a gable roof. It is built of brick and has a small chimney on the side. It is used for storing tools and materials.

6. The sixth is a larger building, about 20 ft. long and 12 ft. wide, with a gable roof. It is built of brick and has a small chimney on the side. It is used for storing tools and materials.

7. The seventh is a small building, about 10 ft. long and 6 ft. wide, with a gable roof. It is built of brick and has a small chimney on the side. It is used for storing tools and materials.

8. The eighth is a larger building, about 20 ft. long and 12 ft. wide, with a gable roof. It is built of brick and has a small chimney on the side. It is used for storing tools and materials.

9. The ninth is a small building, about 10 ft. long and 6 ft. wide, with a gable roof. It is built of brick and has a small chimney on the side. It is used for storing tools and materials.

10. The tenth is a larger building, about 20 ft. long and 12 ft. wide, with a gable roof. It is built of brick and has a small chimney on the side. It is used for storing tools and materials.

REFRIGERATION.

State particulars of Arrangement, Makers, and Survey of Refrigerating Plant.

State extent, particulars, illustrated by Sketches of Insulation.



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REFRIGERATION—Continued.

REFRIGERATION—Continued.



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LOAD LINE PARTICULARS WHERE

Registered Length	Breadth	Depth
Length on L.W.L.	Beam at Gunwale Amidships	
Moulded Depth as measured in Ship		
Round of Beam	Rise of Floor	
Sheer at Stem	Sheer at Sternpost	
" $\frac{1}{8}$ from Stem	" $\frac{1}{8}$ from Sternpost	
Particulars of Sheer in Decks which are not parallel to Freeboard Deck		
Fall in Sheer	Thickness of Wood Deck	
Extent of Wood Deck	Thickness of Ceiling	
Thickness of Sparring	Depth of Framing	
Drop in Tank Level	Modifications in D.B. affecting Coef. (see Sketch).	
Particulars of Erections (see Sketch)		
Length	Length of Overhang (Recesses, &c.)	Height
Forecastle		
Poop or R.Q.D.		
Bridge		
Scantlings of Bulkheads of Erections		
Openings in Bulkheads of Erections and Means of Closing same		

2 ft. 4 c. 2

all

Are the Engine and Boiler Openings covered by the Poop or R.Q.D. and enclosed by a strong Iron or Steel House?

Give Number, Size, and Area of Freeing Ports in Wells

NOT STATED ON L.L.4D. FORM.

Displacement in Salt Water	Tons per inch
Tonnage under Deck	
Means of making Freeboard Deck watertight in erections where Frames pass through	
Freeboard assigned by the Committee, as per letter issued by Secretary dated	
From Top of Statutory Deck Line to Centre of Disc	
Fresh Water Line above Centre of Disc	
Indian Summer	" "
Winter Line below Centre of Disc	
W.N.A.	" "
Statutory Deck Line	ins. above Top of Wood/Iron Deck at Side
Freeboard marks verified :—	
Freeboard as assigned above subject to :—	



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LOAD LINE PARTICULARS—Continued.

Elevation and Plan Sketches showing Lengths and Arrangements of Erections, Length, Heights and variations of Double Bottom, Peak Tanks, Protection of Openings in Bulkheads, if not stated on L.L. 4 D Form.

1-1-4 C.D.
 See

I ~~we~~ have satisfied ~~myself,~~ ~~ourselves,~~ from personal examination, that this Ship has been built in accordance with the approved Plans and the Rule requirements, or their equivalent, that the materials used in the construction of the Hull and Equipment are in accordance with the Rules, and that the workmanship is in every respect satisfactory.

R. K. Hunter

Surveyor to the British Corporation Register
 of Shipping and Aircraft.

It is submitted that this Report be approved.

J. H. Adams
 Chief Surveyor.

(Bulk oil carrier) 2 AUG 1944

Approved by the Committee for the Class of *BS** on the 2nd AUGUST, 1944

M. H. Leary
 Secretary.



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LOAD LINE PARTICULARS--Continued

1. The vessel from general observation that the ship has been built in accordance with the approved Plans and the rules requirements or that equivalent that the materials used in the construction of the hull and equipment are in accordance with the Rules and that the workmanship is in every respect satisfactory.



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