No. 3002

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

N.N. Flying Swordfish

Report No. 3269 No. in Register Book 21993

Ship "EMPIRE PIXIE" (TUG)

Builder GOOLE S.B & R. Co. LTD

Yard No. 376.

NOTED TRO S

HULL AND EQUIPMENT

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

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

Received at Head Office 18/11/42

Surveyor's Report on the Construction of the

~~Single~~ ~~Triple~~ ~~Twin~~ ~~Quadruple~~ Screw STEAMSHIP (TUG)

"EMPIRE PICKLE"

Surveyor's District KINGSTON-UPON-HULL

Builders GOOLE SHIPBUILDING & REPAIRING Co LTD

Yard No. 376. Where Built GOOLE.

Owners MINISTRY OF WAR TRANSPORT

Port of Registry GOOLE. Flag BRITISH.

Managers THE OVERSEAS TOWAGE & SALVAGE Co LTD.

Manager's Address 53 LEADENHALL ST. LONDON.

Official No. 168790.

Rig NONE. Code Letters M.L.B.Q.

Scantling Sections approved by Committee SEE "EMPIRE BRACKEN"

To be classed BS ½ (TOWING PURPOSES)

With a Freeboard of 1'-3½"

Date of First Visit 1-4-41.

Date of Last Visit 16-11-42.

Total number of Visits 35.

Keel Laid 12.9.41. Launched 27.8.42.

Date of Build 11/42. Date of this Report 17/11/42.

PARTICULARS

Registered Dimensions 107·95' x 26·1' x 12·6'
12·6'

Tonnages—

	Tons.
Under Tonnage Deck	231·32
In ..... 'Tween Decks	
In ..... 'Tween Decks	
In ..... 'Tween Decks	
In Turret	
Under Deck Tonnage	231·32

Suez Canal Tonnage—

Tonnage in Poop	
„ R.Q.D.	
„ Bridge	
„ Forecastle	
„ Hatchways	
„ Deck Houses	19·72
„ Chart Houses	
„ Light and Air Spaces	12·18
Gross Tonnage	263·22

Deductions—

	SALVAGE & PERS.	
Crew Space	34·99	34·99
Engine Room %	118·61	218·14
Light and Air		
Navigation Spaces and Stores	12·58	12·58
Peak Tanks		
Deep Tanks		
Net Registered Tonnage		NILL

DOCK PURPOSES 97·04.

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

PARTICULARS—*Continued.*

Moulded Dimensions 107'-0" BP. x 26'-0" x 13'-6"

Height of Superstructure 5'-0 - 7'-6"

Proportions $\frac{L}{B} = \frac{107}{26} = 4·11$ $\frac{L}{D} = \frac{107}{13·6} = 7·95$

$\frac{D}{B}$ $\frac{13·6}{26} = ·52$ $\frac{L}{D \text{ (to top of Superstructure)}} =$

Camber Rise of Floor 12"

Number and Description of **Decks** for Register Book ONE STEEL.

Number of Decks under Freeboard Deck NONE

„ „ above „ „ NON

Heights of 'Tween Decks —

Particulars of Superstructures ACCOM. & BOILER CASING ER & SKYLIGHT.

Distance between Bulkheads of Superstructures BRIDGE FRONT TO BULKHEAD 9'-9"
PASSAGE 2'-6" BLR CASING 22'-9" GALLEY = 5'-4"

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 „	„ 57	„ UPPER	No. 8 „	„	„
No. 1 „	„ 50	„ W.T. FLAT	„ 9 „	„	„
„ 2 „	„ 46	„ UPPER	„ 10 —	„	„
„ 3 „	„	„	„ 11 „	„	„
„ 4 „	„	„	„ 12 „	„	„
„ 5 „	„	„	„ 13 „	„	„
„ 6 „	„	„	„ 14 „	„	„
„ 7 „	„	„	After Peak „	6	„ W.T. FLAT „
				5	UPPER

PARTICULARS—*Continued.*

State which Bulkheads enclose Machinery Space

FRS Nos. 6-23. ER
33-46 BLR.

State Number of Bulkheads to be recorded as effective

THREE

Number and Length of effective Watertight Compartments beginning Forward

1 - FORE PEAK = 8'-9"
1 ACCOM. = 19'-3"
1 - MACHY SPACE = 70'-0" INCLUDING BUNKER
1 - AFT PEAK = 8'-3 1/8"

Number of Non-Watertight Bulkheads TWO.

Double Bottom — Extends from Frame — to Frame

Length and Capacity of Tanks

No. 1	—	Feet	—	Tons.	Fore Peak	8'-9"	Feet	— Tons.
„ 2	—	„	—	„	Aft Peak	8'-3 1/8"	„	15·28 „ 5
„ 3	—	„	—	„	~~Deep~~ FW Tanks	7'-0"	„	23·26 „
„ 4	—	„	—	„				
„ 5	—	„	—	„				
„ 6	—	„	—	„	Oil Bunkers	—	„	— „
„ 7	—	„	—	„				
„ 8	—	„	—	„				
„ 9	—	„	—	„				
„ 10	—	„	—	„	Particulars of Oil Fuel Tanks in Double Bottom. —			

State where Centre Girder Watertight —

NONE.

SEE SS "EMPIRE BRACKEN" No 372

Sketch showing Arrangement of Bulkheads, Tanks, &c.

SEE S.S. "EMPIRE BRACKEN" No 372

SEE SS "EMPIRE BRACKEN" No 372

SKETCHES OF FORE AND AFTER PEAK STRUCTURE

SEE S.S. "EMPIRE BRACKEN" No 372

	TEST. DATE	HEIGHT.
FORE PEAK TANK.	20.VIII.40.	MANHOLE.
AFT " "	20.VII.40.	6'-0" ABOVE DK.

WHERE DETAIL PLANS AS BUILT ARE NOT AVAILABLE.

SEE S.S. "EMPIRE BRACKEN" No 372

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

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.

ALL MATERIAL TESTED.

RIVETS TESTED.

STERN POST TESTED. BC. No. 6666 GAB. 5.8.41.

RUDDER POST TESTED. BC No 6688 GAB. 9/11/41.

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. YES.

State name of approved Plans and date of approval.

STEEL PLAN.

SIDE KEELSONS.

STERN & RUDDER FRAME.

MIDSHIP SECTION.

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. YES

State name of approved Plans and date of approval.

STEEL PLAN.

SIDE KEELSON.

ENGINE & BOILER CASING

MIDSHIP SECTION

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. YES.

State name of approved Plans and date of approval.

STEEL PLAN.

SIDE KEELSONS.

ENGINE & BOILER SEATING.

MIDSHIP SECTION.

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, Strutts, 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.
No. 1 Compartment (forward) tested and found satisfactory		
,, 2 ,, ,, ,,		
,, 3 ,, ,, ,,		
,, 4 ,, ,, ,,		
,, 5 ,, ,, ,,		
,, 6 ,, ,, ,,		

DOUBLE BOTTOM—*Continued.*

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. YES.

State name of approved Plans and date of approval.

MIDSHIP SECTION.

STEEL PLAN.

ENGINE & BOILER SEATING

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.

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.*

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.*

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. YES

State name of approved Plans and date of approval.

MIDSHIP SECTION

STEEL PLAN.

BULKHEAD PLAN.

DECK PLATING PLAN.

BEAMS—*Continued.*

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. YES

State name of approved Plans and date of approval.

STEEL PLAN.

MIDSHIP SECTION.

STANCHIONS, PILLARS, AND GIRDERS—*Continued.*

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. YES

(See also page 5)

BULKHEAD PLAN.

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.

WATERTIGHT BULKHEADS—TESTING.

State particulars and dates of tests of Watertight Bulkheads.

FORE PEAK BULKHEAD	FRAME No 57	12 · VIII · 42
	50	12 · VIII · 42
	46	12 · VIII · 42
AFT BULKHEAD	6	20 · VIII · 42
	5	20 · VIII 42

WATERTIGHT BULKHEADS—TESTING—*Continued.*

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.*

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 YES.

State name of approved Plans and date of approval.

MIDSHIP SECTION.

SHELL EXPANSION.

SHELL & BOTTOM PLATING HOSE TESTED 12.VIII.42. FORD.
20.VIII.42. AFT.

SHELL PLATING—*Continued.*

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. YES.

State name of approved Plans and date of approval.

STEEL PLAN.

GENERAL ARRANGEMENTS

MIDSHIP SECTION.

UPPER DECK	HOSE TESTED.	2. XI. 42
SUPERSTRUCTURE	" "	2. XI. 42.

DECKS—*Continued.*

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 Ceiled 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. YES

State name of approved Plans and date of approval.

GENERAL ARRANGEMENT

MIDSHIP SECTION.

SPECIFICATION.

N.B. FLOORS IN CROSS BUNKER FILLED SOLID TO TOP WITH CEMENT IN LIEU OF WOOD CEILING. REMAINS AS PERMANENT BALLAST.

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. YES.

State name of approved Plans and date of approval.

GENERAL ARRANGEMENT.

STEEL PLAN.

MIDSHIP SECTION.

ENGINE & BOILER CASING

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. YES

State name of approved Plans and date of approval.

ENGINE & BOILER CASING

GENERAL ARRANGEMENT

MIDSHIP SECTION.

STEEL PLAN.

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.

RIVETING AND CAULKING.

ENGINE & BOILER SEATING

" " CASING.

BULKHEAD PLAN.

MIDSHIP SECTION.

STEEL PLAN.

SHELL EXPANSION.

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.

ELECTRODES	TYPE	MAKERS	SIZE	VOLTS.	AMPS.	DEPOSIT IN INS.
METRO VICKERS	RH.	M.V.	8-10.	60/80	50/120	10"-12"

DECK PLATE IN AFT FLAT WELDED TO SHELL

CENTRE INTERCOSTAL GIRDER " " BAR KEEL.

MINOR PARTS.

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, Scupper from Watertight Decks; Soil Pipe Elbows below Freeboard Deck.

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

State name of approved Plans and date of approval.

STEEL PLAN.

GENERAL ARRG^T.

MIDSHIP SECTION.

SHELL EXPANSION.

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. YES

State name of approved Plans and date of approval.

GENERAL ARRG^T.

ENGINE & BOILER CASING.

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? YES

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

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

State name of approved Plans and date of approval.

PUMPING PLAN. 24.6.41.
18.8.42. AMENDED.

THIS SHIP HAS. FIRE & SALVAGE PUMP 14" x 9" x 12".
CAPACITY 130 TONS PER HOUR AGAINST 100 lbs. DISCHARGE PRESSURE.

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.

SPECIFICATION.

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. YES.

State name of approved Plans and date of approval.

SAMSON POSTS

MASTS.

SMITHWORK & RIGGING 21. 8. 41

GENERAL ARRGT.

EQUIPMENT.

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	CERT Nº.	PLACE & DATE OF TEST.
	54415.	CRADLEY HEATH 12. 9. 41.
TYPE	MAKERS' NAME	WEIGHT.
QUICK GRIP.	HINGLEY & SONS.	6c. 3q 21 lbs.
ANCHOR	CERT Nº.	PLACE & DATE OF TEST
	54444.	CRADLEY HEATH 19-9-41
TYPE	MAKERS' NAME	WEIGHT
QUICK GRIP.	HINGLEY & SONS.	7c. 1q 14 lbs.
CHAIN CABLE	CERT Nº	PLACE & DATE OF TEST
	65447	CRADLEY HEATH. 4-7-42.
LENGTH.	SIZE.	WEIGHT PLACE & DATE OF TEST.
150 5/6 FATHOMS.	1" DIA.	4T 0q 0q 19 lbs.
CHAIN CABLE	CERT Nº.	PLACE & DATE OF TEST
	~~65101.~~	~~CRADLEY HEATH~~ ~~27-4-42~~
LENTH.	SIZE	WEIGHT MAKERS' NAME

EQUIPMENT—*Continued.*

STEERING GEAR DONKIN'S

SEE PLAN OF ARRANGEMENTS & DETAILS OF STEERING LEADS 13.6.41.

DIA OF CHAINS. 15/16".

QUADRANT 3'-8" RADIUS x 4'-6"
1/2" PLATE 4" x 4" x 3/8" ANGLES.

QUARTER BLOCKS 13" DIA.

LEADING " 6" "

BUFFER SPRINGS 6" 5/16" OUT. DIA.

STRETCHING SCREWS. 1 3/4" DIA.

TELEMOTOR CONTROL DONKIN'S STEERING ENGINE.

DONKIN'S COMBINED RUDDER CARRIER & BRAKE

RELIEVING TACKLE 5" DOUBLE SHEAVE BLOCKS.

AUXILIARY GEAR 8" SHEAVE BLOCKS TO CAPSTAN

WINDLASS EMERSON WALKER (STEAM)

CAPSTAN " "

LIFE BOATS 2-16'-0".

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.

BOILER FEEDWATER TANKS.	TESTED 12·VIII·42.	HEIGHT. FREEBOARD. DK.

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.				
	„	Starb'd,	„	„			
2	„	Port,	„	„			
	„	Starb'd,	„	„			
3	„	Port,	„	„			
	„	Starb'd,	„	„			
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,	„	„			

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.

SURVEYORS' NOTES.

Give dates of visits also notes of any occurrence of which a record should be kept.

SEE NOTES S.S. "EMPIRE BRACKEN"
SS " IVY.

8. VII. 42.	14. VII. 42.	23. VII. 42.	14. VIII. 42.	
12. VIII. 42.	20. VIII. 42.	27. VIII. 42.	2. VIII. 42.	
11. IX. 42.	14. IX. 42.	28. IX. 42.	30. IX. 42.	
6. X. 42.	12. X. 42.	30. X. 42.	2. XI. 42.	20. X. 42.
3. XI. 42.	5. XI. 42.	9. XI. 42.	30. X. 42.	17. X. 42.
2. XI. 42.	8. XI. 42.			

SURVEYORS' NOTES—*Continued.*

SHIP DARKENING ARRANGEMENTS TESTED
CERTIFICATE FURNISHED BY CONVOY OFFICER. 12-11-42
at 6 PM.

SURVEYORS' NOTES—*Continued.*

REFRIGERATION.

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

State extent, particulars, illustrated by Sketches of Insulation.

LOAD LINE PARTICULARS WHERE NOT STATED ON L.L.4D. FORM.

Registered Length 107·95' Breadth 26'·1' Depth 12·6'

Length on L.W.L. 107'-0" Beam at Gunwale Amidships 26'-0"

Moulded Depth as measured in Ship 13'-6

Round of Beam 7" Rise of Floor 12"

Sheer at Stem 42" Sheer at Sternpost 45"

" ⅓ from Stem 25" " ⅓ from Sternpost 20"

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 ·6'

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 —

Are the Engine and Boiler Openings covered by the Poop or R.Q.D. and enclosed by a strong Iron or Steel House? No.

Give Number, Size, and Area of Freeing Ports in Wells NO WELLS.

Displacement in Salt Water 551·48 Tons per inch 5·25.

Tonnage under 231·32 Deck

Means of making Freeboard Deck watertight in erections where Frames pass through NINE

Freeboard assigned by the Committee, as per letter issued by Secretary dated 31-8-42.

From Top of Statutory Deck Line to Centre of Disc 1'- 3½"

Fresh Water Line above Centre of Disc 2½"

Indian Summer " " —

Winter Line below Centre of Disc 3"

W.N.A. " " 5"

Statutory Deck Line — ins. above Top of ~~Wood~~/Iron UPPER Deck at Side

Freeboard marks verified :—

Freeboard as assigned above subject to :— TOWING PURPOSES.

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.

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.

Robert L. Greig.

Surveyor to the British Corporation Register of Shipping and Aircraft.

It is submitted that this Report be approved.

J. H. Adam.

Chief Surveyor.

3 MAR 1943

Approved by the Committee for the Class of 135* (Towing Purposes) on the 3rd March 1943

W. J. Curlew

Secretary.

Propeller ED HOLMES No E 1673

BC
JPG
9/9/41

Tail Shaft

33
14
42