

STEEL STEAMER OR MOTORSHIP.

Received at London Office 9 - MAR 1948

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

State if Report is sent on the Machinery of the Vessel

Date of completion of report

Feb 1948

Port of

NEWCASTLE ON TYNE

No. 105097

Survey held at

Wallsend on Tyne

Date First Survey

10th APRIL 1946

Last Survey

17th Feb

1948.

On the

(State if Machinery fitted Aft and if Single, Twin or Triple Screw)

Imbo Electric Tanker "HYALINA"

Machinery aft.

State Type

(Full Scantling, Complete Superstructure with or without Tonnage Openings)

Full Scantling

State Type of Erections

Roof Bridge Forecastle

TONNAGE under Tonnage Deck ...

10950.96

CLASS +100A.1.

State if with freeboard as condition of Class

No.

Built at

Wallsend on Tyne

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 550.0

Breadth (greatest moulded)

B 70.0

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 40.5

1st Longitudinal Number (L x D)

21725

2nd Numeral L x (B + D)

60225

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

✓

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

13.58

Do. Long Bridge to top of keel

31-6 1/4

Draught Moulded

Launched 19th June 1947. Yard No. 1753

Builders Swan, Hunter, Wigham, Richardson

Owners The Anglo Saxon Petroleum Co. Ltd.

Managers

(Where necessary to be entered in Reg. Book)

Residence

Port of Registry London

If surveyed while building, afloat, & in dry dock

yes.

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.
AMES, Spacing amidships.	33 ✓		Bracket Floors, Frame	✓	
from 1/2 length amidships to Collision bulkhead	29 1/2 ✓		" " Reversed Frame	✓	
from 1/2 L aft (Machinery Room)	32 1/2 ✓		" " Vertical Struts	✓	
in peaks	24 ✓		Centre Girder, depth and thickness amidships	60 x 5/8 x 66 ✓	
DE FRAMING.			" " top Angles	all E. Welded ✓	
Frame Amidships, Angle, E or C	11 3 1/2 x 43 ✓		" " bottom Angles	✓	
Extends up to	up to deck ✓		Side Girders, No. each side and thickness	one 48 x 56 ✓	
Reversed Frame Amidships, Angle	✓		Margin Plate depth (excl. of flange) and thickness	✓	
Extends up to	✓		" " Vertical Angle to Tank side	✓	
Depth of Framing Girder	11 ✓		" " Bracket abaft 1/2 len. from stem	✓	
Frames in Uppermost Continuous Deck	11 3 1/2 x 43 ✓		" " Vertical Angle to Tank side	✓	
above deck tank top to fore Dk.	10 3 1/2 x 40 ✓		" " Bracket from forward 1/2 len. from stem to Panting Area	✓	
Second Deck, Angle, E or C	✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	✓	
Third	✓		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	✓	
from 1/2 len. for'd. to 15% len. from Stem	✓		Tank Side Brackets, height above base line at toe of Frame and thickness	✓	
in Peaks, Angle or C	10 3 1/2 x 40 ✓		INNER BOTTOM PLATING. Engine Room only	Breadth as approved. ✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 - 4 1/8 ✓		Breadth and thickness	x 64 x 60 x 52 ✓	
State if Frame Joggled	no ✓		Thickness of remainder in Holds	✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	yes ✓		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?	✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	yes ✓		BEAMS.		
ANGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, E or C	See Rpt. 1 ✓	
Floors, Depth and thickness at mid-line in Holds	✓		" " in way of Bridge, Angle, E or C	✓	
Height of Brackets at side above base line at toe of frame	✓		Spacing	✓	
Middle Line Keelson, on Floors, Angles, E or C	✓		Second Deck, amidships, Angle, E or C	✓	
" " Through Plate or Inter-costal Plate	✓		Spacing	✓	
" " Foundation Plate on Floors	✓		Third Deck, amidships, Angle, E or C	✓	
" " Flat Plate Keel Angles	✓		Spacing	✓	
Side Keelsons, No. each side	✓		Fourth Deck, amidships, Angle, E or C	✓	
" " thickness of Inter-costal Plate	✓		Spacing	✓	
" " Angles	✓		Poop Deck, Angle, E or C	✓	
DOUBLE BOTTOM. Engine Room only	Every frame ✓		Spacing	Every frame ✓	
Solid Floors, thickness and spacing	5/8, 4/8, 5/8 ✓		Bridge Deck, Angle, E or C	7 3 x 37 1/2 ✓	
" " Are Frame and Reversed Frame joggled?	all E. Welded ✓		Spacing	Every frame ✓	
Bracket Floors, breadth and thickness at middle line	✓		Forecastle Deck, Angle, E or C	9 3 1/2 x 37 1/2 ✓	
" " breadth and thickness at margin plate	✓		Spacing	Every frame ✓	

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	as		Stringer Plate, breadth and thickness in way of Bridge	✓	
„ in 'tween Decks, Size and Spacing	approved		Thickness of Plating abreast Deck openings in way of Wells	✓	
„ „ „ „ „	for		Thickness of Plating abreast Deck openings in way of Bridge.....	✓	
„ in Holds „ „ „	and		Thickness of Plating within line of openings...	✓	
„ „ „ „ „	after ends ✓		If Sheathed, material and thickness.....	✓	
2 Longit. Centre-Line Bulkhead ✓			Third Deck.		
Stiffeners and Spacing	Spaced 33" ✓	10x44 Bulk plate. ✓	Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of	56x45 ✓		If Plated, state thickness	✓	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	87x1.00 ✓		If Plated, state thickness.....	✓	
„ „ „ „ in way of Bridge	87x1.10x1.20 ✓		Poop Deck.		
„ Angle in Wells	E. Welded to Sheerstrake. ✓		Stringer Plate, breadth and thickness.....	54x50x.40 ✓	
Thickness of Plating abreast Deck openings in way of Wells	Cr. strake 1.00-1.50 in way of Pump rooms ✓		Plating, Sheathing, material and thickness	50x.30 ✓	
Thickness of Plating abreast Deck openings in way of Bridge.....	Hatch strake 1.00. ✓		Bridge Deck.		
Thickness of Plating within line of openings.....	Thro' " 1.00-1.20 in way of Bridge ends ✓ see plan		Stringer Plate, breadth and thickness.....	46x.47 ✓	
If Sheathed, material and thickness.....	Base Steel. ✓		Plating, Sheathing, material and thickness	38 Box Steel ✓	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells	✓		Stringer Plate, breadth and thickness.....	40 ✓	
			Plating, Sheathing, material and thickness	38 Box Steel ✓	

SHELL PLATING.

[illegible]

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—
Extending to Upper Deck (Sec. 3 c) 16 ✓
,, Deck next below
As per Rule 16 affirmed.

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Drawings from A Plans to
KEEL, Bar	✓			
STEM		Plate Stem. ✓		
STERN FRAME	{ Propeller Post Rudder " " }	Casting as approved. ✓	Darlington Forge Ltd. ✓	
Speed of Vessel				17 knots. ✓
RUDDER—Type	"Simplex"	as approved ✓	Darlington Forge Ltd. ✓	
" A × D.	671 ✓			
" Diam. of head	Forged Steel ✓	14 1/2" ✓	Darlington Forge Ltd. ✓	
" Mainpiece at top pintle				
" " heel		as approved. ✓		
" how constructed				
" double or single plate coupling, vertical or horizontal		Double. ✓ Horizontal. ✓		

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D,	Upper 'tween decks		C. L. Web.			
"	Second		66" x 80" with 18" x 1 1/2" flat and			
"	Third		10" x 40" bulk plate		30"	
"	Holds		54" x 42" 19" x 4" x 60" I 7" x 3 1/2" x 35" 5" x 3" x 30"			
"	(in Hold)		50" x 26" 57" x 3 1/2" x 3 1/8" I 50" x 30" 6" x 3" x 5 1/8" I		24"	35" stringers
"						Two " 3 1/8" I
"					24"	7" x 3 1/2" x 3 1/8" 48"

<p>STEEL.</p>	<p>Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) <i>James Heath</i></p> <p><i>Consell Iron Co, Affleck Forging and Steel Co, Donagh Long, Skinningrove Iron Co, Steel Co of Scotland Ltd, Colville Ltd, Cargo Fleet Iron Co, Lamark's Iron Steel Co.</i></p>	<p><i>As approved.</i></p>
	<p>Has the Steel been tested as required by the Rules? <i>Yes.</i></p>	

Hyalina 105097

EQUIPMENT No. 62904

LETTER 27/16

ANCHORS.

Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				Description of Anchor.	Makers.	Where and when tested, and Superintendent.
	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.			
1st Bower	100	3	7				67	12	2	0	Halls Stockless	Highly & Sons Ltd	26/10/45 J. A. Bell
2nd "	100	0	0				67	5	0	0	"	"	"
3rd "	99	2	14				67	5	0	0	"	"	"
Collective weight	300	1	21								Total 298 cwt.		
Stream	31	1	21	9	0	0	29	15	0	0	Rodgers Ordinary	J. Taylor & Son	16/5/45 J. A. Bell

CHAIN CABLES.

HAWSERS AND WARPS.

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.	Supplied.	Per Rule.	Cwts.						Length.	Cir.		Length.	Cir.
Fathoms	Ins.	Tons.	Cwts.	qrs.	lbs.	Fathoms	Ins.				Fathoms	Ins.	Tons.	Fathoms	Ins.
330 2/3	2 7/16	14 9/16	1075	0	7	330	2 7/16	J. Taylor & Son	29/5/47 J. A. Bell	TOWLINE	130	6 1/2	112.3	130	6 1/2
2 1/2" fine iron shackles			3	0	21			2 1/2" ord. iron		HAWSERS & WARPS	2 @ 120	3 1/4	21.7	2 @ 120	2 3/4
2 " ord shackles			3	1	0						2 @ 120	3 1/4	21.7	2 @ 120	2 3/4
120	5 1/2					120	5 1/2 (6/24)	R. Ford & Hygie	Makes Sols.						

ing Gear, Type (Power & hand) Steam Hydraulic by S. H. & Sons. Alternative Means of Steering Blocks & Tackle.

ing Chains (Size and Test) 1" Windlass Steam by Emerson Walker. Boats 4 Steel Brab (1 Motor)

g in Holds, thickness and material 4" 0 dia hatch. Cargo Batches, thickness, material and spacing 4" 2.

Hatchways. (Upper Deck) Steel plates - Standard Circular type 3' 10" dia opening. Thickness of Hatches 4" 2.

f Hatchways No. 1 (Fwd.) 8' 0" x 8' 0" No. 2 ✓ No. 3 ✓ No. 4 ✓ No. 5 ✓ No. 6 ✓

ber of Shifting Beams Stiffened. For SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.

l/or Fore and Afters Builder's Signature W. Buckle

ERAL 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. Turboelectric.

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo oil tanker. The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation).

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

The materials and workmanship are good.

The weather decks clear of oil tanks, and watertight bulkhead above peak tank forward have been hose tested and found satisfactory. The peak tanks, all cargo tanks, deep tank forward, fuel bunkers, settling tanks, cofferdams, F.W. tanks, and double bottom tanks have been tested as required by the Rules and found satisfactory.

The requirements of Section 20 of the Rules, when applicable for the carriage of oil fuel, having a flash point above 100°F have been complied with. The Windlass and steering gear have been tried over and found satisfactory.

The assigned fuelboards have been marked on the vessel's sides, verified, and cut in. The oil fuel is carried in tanks at the forward end of the engine room, in hanging tanks in the engine room, in fore deep tank, and part of the double bottom under the machinery space.

amount of Entry Fee..... £ ✓ : Fees applied for, 4 MAR 1948

Special Survey Fee..... £ 1026-0-0 Received by me, 19

FREEBOARD

Travelling Expenses, if any..... £ 20:0:0

Whether the Vessel has been built under Special Survey Yes.

Signature E. H. Dean & self

Surveyors to Lloyd's Register of Shipping. J. T. Pyle

ificate to be sent to Leicester office. Date of issue. 30/6/48.

Committee's Minute ✓

Character assigned +100A1 "Carrying Petroleum in bulk"

2.48 hwc. Fitted for oil fuel 2.48 F.P. above 150°F

Lloyd's A+C.P.

+ LMC 2.48

F.D. C.L.

2 WTB 450lb (Spt 440lb) 2.0 180lb.

0193 3/3

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.)

No 1711
This vessel is a sister vessel to "Helicina", Newcastle-on-Tyne R/Lt No 104096.
The approved plans for the above vessel which have been used for No 1753 are returned herewith.

The following approved plans for this vessel are forwarded herewith.

Midship Section & Side Stringers
Midship O.T. Bulkheads.
Midship Superstructures.
Profile & Deck Plans.

5" Forging or casting R/Lt for stem frame, rudder & tiller also certificate for steering gear are enclosed herewith.

PARTICULARS OF ELECTRIC WELDING (if employed) Vessel all electrically welded except the ship's side frames and details of the structure generally, which are riveted.

The methods employed, and the electrodes used, are in accordance with the Rules.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. Cruiser stern. Machinery aft. Longitudinal framing at bottom and decks. Clonks A. & C.P. E.S.D. D.F. Electrically welded, 1 Dk & 2nd dk clear of oil tanks, fitted for oil fuel 2-48 F.P. above 150° F. carrying Petroleum in bulk. gyro compass.

Particulars of Drop Test of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower 63-3-14, A.E. Galleford, 64t No 7737, 21/8/45
	2nd " 63-2-21 " " " " " 7709 27/7/45
	3rd " 63-1-7 " " " " " 7828 18/9/45

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 146.83 ft., R.Q.D. ft., Bridge 52.27 ft., Forecastle 46.25 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. 181843 Signal Letters G.K.B.Q Extreme Breadth over Belting 583.41 Ft. (Circ. 1611) (Circ. 1703)

No. and Material of Decks. 1 Deck & ft 2nd Deck clear of oil tanks

Parts of Bottom of Vessel coated with cement or approved composition bottom of Fore & after pk tanks.

Particulars of composition (if fitted) and of approval

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	28.08	92
Double bottom, under Engines and Boilers,	27.08	62	After peak tank,	23.12	118
Double bottom, if under Engines only,	78.5	252	Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,	44.25	979
Double bottom, forward,			Other tanks, if fitted,		
Total length (if continuous) and Capacity	105.58	314	(If necessary furnish further information by sketch.)		

5795
Order for Special Survey No. _____
Date 31/5/46
Dates of Surveys held while building
11946 APR. 10, 24, MAY. 3, 7, 14, 17, 20, 21, 28, JUNE 4, 6, 13, JULY 5, 8, 16, 18, 23, 24, 26, AUG. 8, 16, 19, 23, 28, SEPT. 4, 11, 18, 20, 27, OCT. 18, 21, 30, NOV. 4, 13, 20, 27, DEC. 4, 5, 17, 11947 JAN. 6, 13, 14, 16, 17, 21, 23, 28, FEB. 10, 12, 18, MAR. 6, 7, 11, 12, 17, 21, 24, 26, 28, APR. 9, 11, 15, 23, 24, 28, 29, MAY. 2, 5, 7, 9, 13, 15, 19, 22, 23, 27, 30, JUNE 2, 3, 4, 5, 6, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, JULY 1, 25, AUG. 11, 20, SEPT. 5, 17, 19, OCT. 9, 13, 17, NOV. 5, 12, 13, 24, DEC. 17, 26, 11948 JAN. 6, 12, 14, 19, 20, 21, 22, 27, FEB. 2, 3, 9, 11, 12, 13, 17

Total No. of Visits 136