

STEEL STEAMER or MOTORSHIP.

18 AUG 1924

Received at London Office

State if Report has been sent on the Freeboard of the Vessel *Yes*State if Report is sent on the Machinery of the Vessel *From App.*Date of completion of report *12/8/24*Port of *Newcastle-on-Tyne*No. *78191*Survey held at *South Shields*Date First Survey *5th May*Last Survey *2nd August* 19 *24*

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

*S.S. "INDIUM"**Single Screw. Machinery Aft.*

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

*Full Scantling Vessel.*State Type of Erections *R.Q.D. Bridge + etc.*

TONNAGE under Tonnage Deck

*146.15*CLASS ** 100 A1*State if with freeboard as condition of Class *No*Built at *South Shields*

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 *105.0*Launched *July 14th 1924* Yard No. *212*

Breadth (greatest moulded)

B *22.0*Builders *C. Renoldson & Co. Ltd.*

Total

146.15

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

D *9.66*Owners *The United Alkali Co. Ltd.*

Gross Tonnage

*206.64*1st Longitudinal Number (L x D) = *1014*Managers *✓*

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

Register Tonnage

*75.46*2nd Numeral L x (B + D) = *3324*Residence *Liverpool*

REGISTERED DIMENSIONS. FEET.

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

*40 = 8.71*Port of Registry *Liverpool*

Length

105.0

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

10.9

If surveyed while building afloat, or in dry dock

Breadth

22.15

Do. RQ Long Bridge to top of keel

8.3

Depth

*9.0*Draught Moulded *9.5"**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.
FRAMES, Spacing amidships	21			✓	Bracket Floors, Frame				
" " from 1/2 length to Collision bulkhead	21			✓	" " Reversed Frame				
" " in peaks	21			✓	" " Vertical Struts				
IDE FRAMING.					Centre Girder, depth and thickness amidships				
Frame Amidships, Angle, <i>E or F</i>	4	3	.30	<i>4 x 2 1/2 x 30</i>	" " top Angles				
" " Extends up to	4	3	.36	<i>4 x 2 1/2 x 36</i>	" " bottom Angles				
Reversed Frame Amidships, Angle	2 1/2	2 1/2	.26	✓	Side Girders, No. each side and thickness				
" " Extends up to	4	3	.30	<i>4 x 2 1/2 x 30</i>	Margin Plate depth (excl. of flange) and thickness				
Depth of Framing Girder	4			✓	" " Vertical Angle to Tank side				
Frames in Uppermost Continuous 'tween Decks, Angle, <i>E or F</i>	✓			✓	" " Bracket abaft 1/2 len. from stem				
" " Second 'tween Decks, Angle, <i>E or F</i>	✓			✓	" " Vertical Angle to Tank side				
" " Third " " " "	✓			✓	" " Bracket forward 1/2 len. from stem				
Framing in Peaks, Angle <i>E or F</i>	4	3	.30	<i>4 x 2 1/2 x 27</i>	" " Gussets, spacing and scantling abaft 1/2 len. from stem				
Diameter and Spacing of Rivets through Shell Plating <i>* Frames</i>	5/8	4 3/8	apart	<i>where allowed.</i>	" " Gussets, spacing and scantling forward 1/2 len. from stem				
State if Frame Joggled	Yes			✓	Tank Side Brackets, height above base line at toe of Frame and thickness				
PLANTING ARRANGEMENTS (Sec. 7), state system and particulars	<i>Stringer & Beams in Fore Peak as appd.</i>				INNER BOTTOM PLATING.				
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>Double Frames & 2 Side Keelsons as appd.</i>				Breadth and thickness of Middle Line Strake				
SINGLE BOTTOM.					Thickness of remainder in Holds				
Floors, Depth and thickness at mid-line in Holds	11 1/2	x	.26	<i>as appd.</i>	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.			
Height of Brackets at side above base line at toe of frame	23			0°	BEAMS.				
Middle Line Keelson, on Floors, Angles, <i>E or F</i>	3 1/2	3	.36	0°	Uppermost Continuous Deck, amidships in Wells, Angle, <i>E or F</i>	4	3	.32	<i>as appd.</i>
" " " Through Plate on Intercoastal Plate	15	x	.30	<i>as appd.</i>	" " " in way of Bridge, Angle, <i>E or F</i>	3	3	.28	0°
" " " Foundation Plate on Floors	✓			✓	" " Spacing	4	3	.32	0°
" " " Flat Plate Keel Angles	✓			✓	RQ Second Deck, amidships, Angle, <i>E or F</i>	4	3	.32	0°
Side Keelsons, No. each side	2	In Hold		<i>as appd.</i>	" " Spacing	3	3	.28	0°
" " thickness of Intercoastal Plate	.26			0°	Third Deck, amidships, Angle, <i>E or F</i>	✓			✓
" " Angles <i>Single</i>	5	3	.44	0°	" " Spacing	✓			✓
DOUBLE BOTTOM.					Fourth Deck, amidships, Angle, <i>E or F</i>	✓			✓
Solid Floors, thickness and spacing	✓			✓	" " Spacing	✓			✓
" " Are Frame and Reversed Frame joggled?	✓			✓	Poop Deck, Angle, <i>E or F</i>	✓			✓
Bracket Floors, breadth and thickness at middle line	✓			✓	" " Spacing	✓			✓
" " breadth and thickness at margin plate	✓			✓	Bridge Deck, Angle, <i>E or F</i>	4	3	.30	<i>as appd.</i>
					" " Spacing	alternating F.			0°
					Forecastle Deck, Angle, <i>E or F</i>	4	3	.30	0°
					" " Spacing	Every Frame			0°

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.....	2 1/4	Dia in		As appd.	Thickness of Plating abreast Deck openings in way of Wells				
„ „ „ „ „	Bridge + 7' 6"				Thickness of Plating abreast Deck openings in way of Bridge				
„ in Holds „ „	2 1/2	Dia Alts.		as appd.	If Sheathed, material and thickness				
„ „ „ „ „	7 Deep Beam Knees.				Third Deck.				
Centre Line Bulkhead.					Stringer Plate, breadth and thickness.....				
Stiffeners and Spacing.....					If Plated, state thickness.....				
Plating, thickness of					Fourth Deck.				
STRINGERS AND DECKS.					Stringer Plate, breadth and thickness.....				
Uppermost Continuous Deck.					If Plated, state thickness				
Stringer Plate, breadth and thickness in Wells	4 1/2	x	.36	as appd.	R.Q. Peep Deck.				
„ „ „ „ in way of Bridge	4 7	x	.36	0°	Stringer Plate, breadth and thickness	5 8	x	.32	as appd.
„ Angle in Wells	3	3	.36	0°	Plating, Sheathing, material and thickness ..	Steel	.30		0°
Thickness of Plating abreast Deck openings in way of Wells36	0°	Bridge Deck.				
Thickness of Plating abreast Deck openings in way of Bridge					Stringer Plate, breadth and thickness.....	2 1	x	.24	2 1 x .23
If Sheathed, material and thickness					Plating, Sheathing, material and thickness ..	P.P.	2 1/2		as appd.
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...					Stringer Plate, breadth and thickness.....	3 6	x	.24	0°
					Plating, Sheathing, material and thickness ..	2 4	5' 6"	Sheathing 2 1/2	P.P.

SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? ordinary		No. of Rows of Rivets.		RIVETS.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.	RIVETS.			Diam.	Spacing cr. to cr.
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.
Bar.											
KEEL	6" x 1"				6 x 7/8 Bar Plate.	Double	7/8	4 3/8			
„ DBLG. (if any)											
BOTTOM PLATING, No. of Strakes ...2.....	As appd.	.32 x .30	.32 x .30	.30 x .28	as approved	Single	5/8	2 5/8	Double	5/8	2 1/4
BILGE PLATING, No. of Strakes ...4.....		.30	.26	.26	0°	0°	"	"	0°	"	"
SIDE PLATING, No. of Strakes ...1.....		.32	.26	.26	0°	0°	"	"	0°	"	"
UPPER DECK, Sheer-strake in Wells.....	4 1	.34	.26	.26	0°				0°	"	"
UPPER DECK, Sheer-strake in Bridge ...	4 1	.50			0°	Single	3/4	3	0°	3/4	2 5/8
STRAKE BELOW Sheer-strake in Wells.....											
STRAKE BELOW Sheer-strake in Bridge ...											
R.Q.D. Sheer Peep Deck PLATING	4 1	.32		.26	as appd.	Single to strake below	5/8	2 5/8	Double	5/8	2 1/4
BRIDGE SIDE PLATING ...	4 4	.24			0°	0°	"	"	None.	-	-
FORECASTLE SIDE PLATING		.24			0°	Single	5/8	2 1/2	Single	5/8	2 1/4

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c) 3

„ Deck next below

As per Rule 3

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	Rollcd.	6" x 1"	South Durham	6 x 7/8
STEM	0°	6" x 1"	0°	6 x 7/8
STERN FRAME { Propeller Post	Forging	5 1/4 x 2 1/4	Emerson	As appd.
{ Rudder „		5 x 2 1/4	Walker	
RUDDER—A x D.....		5 1/4 x 6		As appd.
Speed of Vessel.....		10 Kts		
RUDDER mainpiece at head ...	Forging	3 3/4	0°	0°
„ „ heel ...		3		0°
„ how constructed	Forged + Built			
„ double or single plate coupling, vertical or horizontal	None.	.65		0°

STEEL.

Manufacturer's name or trade mark of the Steel used in the construction of the

Vessel (state process of manufacture) Open Hearth.

Plates South Durham. Angles. Cargo Fleece.

Has the Steel been tested as required by the Rules? Yes

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EQUIPMENT No. 3712

LETTER C

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.		Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.				
58104	1st Bower ...	6	1	16	3	1	16	8	12	2	0	6-1-0-0		Taylor Drednought	S. Taylor & Sons	Tipton S.S. 24 W.A. Drysdale
58103	2nd " ...	6	1	4	0			8	10	0	0	6-1-0-0		"	"	" 0° 2.5.24 0°
	3rd " ...															
	Collective weight.	12	2	20								12-2-0-0				
56224	Stream	1	3	21	1	2	0	4	7	0	21	1-3-0-0		Ordinary	S. Taylor & Sons	Tipton 15-3-21 W.A. Drysdale

CHAIN CABLES.

HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.			Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.	
	Length.	Diam.	Status.	Break-ing.	Supplied.	Per Rule.		Length.	Diam.					Length.	Cir.		Length.	Cir.
58770	135 1/2	1 1/16	11 7/8	12 8/10	48.0.6	45.3.3		135	1 1/16	Stud LK	S. Taylor & Sons	Tipton 30 1/4 W.A. Drysdale	TOWLINE	75	2 1/4	9 1/2	75	2 1/4
													HAWSERS & WARPS	90	4	-	90	4
Stream (Chain or Steel Wire)	45	2	1	7				45	2	G.S.W.R.	P. Ellis & Co.							

Steering Gear, Steam Higginson & Co. ✓

Steering Gear, Hand None.

Tiller of increased strength & wire ✓
Leads to Capstan.

Boats 2 lifeboats 14'0"

Steering Chains, Size and Test

7" dia. 2 1/4 tons Staty.

Windlass Emerson Walker & Thompson ✓

Ceiling in Holds, thickness and material 2 1/2" Wood with 1 3/4" oak in way of hatch.

Cargo Battens, thickness, material and spacing 2" Wood. Batten & Space.

Cargo Hatchways.—(Upper Deck) One. ✓

Thickness of Hatches 2 1/2 ✓

Size of No. 1 Hatchway (Forward) 28-3x12-6 No. 2 ✓

No. 3 ✓

No. 4 ✓

No. 5 ✓

No. 6 ✓

Number of Shifting Beams and Fore and Afters 5 ✓

Builder's Signature

For Charles R. Renoldson Esq.
Bristol

GENERAL DECLARATION This Vessel has been built in accordance with the approved plans, instructions & the Rules. ✓

The Materials & workmanship are good.

The freeboard has been verified & the freeboard marks cut in on the Vessel's sides.

Fore & after peak tanks, weather decks & bulkheads satisfactorily tested.

The amount of Entry Fee £ 2 : - : -

Fees applied for,

Special Survey Fee.... £ 20 : 14 : -

Freeboard £ 2 : - : -

Travelling Expenses, if any £ : : -

Received by me,

I am of opinion the Vessel should be Classed 100 A1

State whether the Vessel has been built under Special Survey Yes.

Signature

Norman W. Kirkley

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to NEWCASTLE-ON-TYNE.

Date of issue 12/9/24.

Committee's Minute

FRI 22 AUG 1924

Character assigned

Lloyd's 100 A1

+ 2nd 6.7.24
O.G.

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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 the Plans should be embodied.)

Plans forwarded herewith:— Midship Section
Profile
Stem frame + Rudder
Bottom strengthening forward
Rudder Quadrant
Forging Reports. Rudder + Stem frames

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

1st Bower ✓
2nd „ ✓
3rd „ ✓

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. 40.66 ft., Bridge 8.75 ft., Forecastle 15.3 (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

No. and Material of Decks and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) One Deck. Steel. Well

Official No. 147.269 ; Signal Letters
particulars of composition Cement If bottom of Vessel has been coated Inside Yes

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	✓	✓	Fore peak tank,	13.56	27
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	7.45	12
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,		
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,		
Double bottom, forward,	✓	✓	Other tanks, if fitted,		
Total capacity of double bottom	✓	✓	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 5082

Date 17/6/24

Dates of Surveys held while building

1924 May 5. 8. 13. 21. 23. 26. 29. June 18. 19. 24. July 3. 4. 8. 9. 10. 30. Aug 1. 2.

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Total No. of Visits 18