

STEEL ~~STEAMER~~ or MOTORSHIP.

Received at London Office

State if Report has been sent on the Freeboard of the Vessel YESState if Report is sent on the Machinery of the Vessel YES

Date of completion of report

Port of

GLASGOW.

No.

62180

Survey held at

GLASGOW.

Date First Survey

1939 May 3rd

Last Survey

26th March, 1940

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

SINGLE SCREW

"SUTLEY"

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

COMPLETE SUPERSTRUCTURE WITH TONNAGE OPENING AFT.

State Type of Erections FOCLE ON SUPERSTRUCTURE

TONNAGE under Tonnage Deck...}

4544.47

CLASS M100A1

State if with freeboard as condition of Class

WITH FREEB

Built at SCOTSTOWN - GLASGOW.

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a)

L 410.0

Launched 8th FEBRUARY 1940 Yard No. 428

Breadth (greatest moulded)

B 55.0

Builders CHARLES CONNELL & Co. Ld

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

ACTUAL 37.0

Owners JAMES NOURSE, Ld.1st Longitudinal Number (L x D)  $410.0 \times 36.75 = 15068$ 

Managers

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

2nd Numeral L x (B + D)  $410.0 (55.0 + 36.75) = 37618$ Residence AS RECORDED.

REGISTERED DIMENSIONS.

FEET.

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

24.54

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

11.08

Port of Registry LONDON.

Do. Long Bridge to top of keel

If surveyed while building, afloat, or in dry dock

Draught Moulded

25.7

BUILDING & AFLOAT.

## 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	27	✓	Bracket Floors, Frame	B.A. 6 3 1/2 34	✓
" " from 3/4 length amidships to Collision bulkhead	27	✓	" " Reversed Frame	B.A. 6 3 34	✓
" " in peaks	24	✓	" " Vertical Struts	2 CHANNEL 8 x 3 1/2 x 3/2 x 42	✓
DE FRAMING.			" " Vertical Struts	1 B.A. 6 3 34	✓
Frame Amidships, Angle, E or F	12 3 1/2 56	✓	Centre Girder, depth and thickness amidships	50 1/2 49	✓
" " Extends up to	2nd DECK	✓	" " top Angles	3 1/2 3 1/2 48	✓
Reversed Frame Amidships, Angle	✓		" " bottom Angles	4 4 54	✓
" " Extends up to	✓		Side Girders, No. each side and thickness	1 2 36	✓
Depth of Framing Girder	✓		Margin Plate depth (excl. of flange) and thickness	48 54	✓
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	7 3 1/2 35	✓	" " Vertical Angle to Tank side	3 1/2 3 1/2 45	✓
" " Second 'tween Decks, Angle, E or F	✓		" " Bracket abaft 1/2 len. from stem	3 1/2 3 1/2 45	✓
" " Third " " " "	12 x 3 1/2 x 45 & 12 x 3 1/2 x 56 BA	✓	" " Vertical Angle to Tank side	3 1/2 3 1/2 45	✓
" " from 1/2 len. for'd. to 15% len. from Stem	NITH 5 x 3 x 40 REV FRAME	✓	" " Bracket from forward 1/2 len. from stem to Panting Area	42 CONT' PLATE	✓
" " in Peaks, Angle or F	7 1/2 3 1/2 39 BA	✓	" " Gussets, spacing and scantling abaft 1/2 len. from stem	42 CONT' PLATE	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 R 2 68	✓	" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	42 CONT' PLATE	✓
State if Frame Joggled	YES	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	68 43	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	AS APPR.	✓	INNER BOTTOM PLATING.		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	AS APPR.	✓	Breadth and thickness of Middle Line Strake	53 52	✓
DOUBLE BOTTOM.			Thickness of remainder in Holds	42	✓
Floors, Depth and thickness at mid-line in Holds			Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & D. space and framing in Bankers and Boiler Room?	YES	✓
Height of Brackets at side above base line at toe of frame			BEAMS.		
Middle Line Keelson, on Floors, Angles, E or F			Uppermost Continuous Deck, amidships	8 3 35	✓
" " Through Plate or Intercoastal Plate			" " in Wells, Angle, E or F	8	✓
" " Foundation Plate on Floors			" " in way of Bridge, Angle, E or F	AS APPROVED	✓
" " Flat Plate Keel Angles			Spacing	EVERY FRAME	✓
Keelsons, No. each side			Second Deck, amidships, Angle, E or F	8 1/2 3 43	✓
" thickness of Intercoastal Plate			Spacing	EVERY FRAME	✓
" Angles			Third Deck, amidships, Angle, E or F		
DOUBLE BOTTOM.			Spacing		
Mid Floors, thickness and spacing	39 EVERY 42	✓	Fourth Deck, amidships, Angle, E or F		
" " Are Frame and Reversed Frame joggled?	YES	✓	Spacing		
Bracket Floors, breadth and thickness at middle line	32 1/2 39	✓	Poop Deck, Angle, E or F		
" " breadth and thickness at margin plate	32 1/2 39	✓	Spacing		
			Bridge Deck, Angle, E or F		
			Spacing		
			Forecastle Deck, Angle, E or F	11 3 1/2 44	✓
			Spacing	9 3 1/2 38	✓
				ALTS FRAMES	✓



PILLARS AND DECKS.						
	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.		
<b>PILLARS.</b> No. of Rows.....	2 ROWS. ✓					
" in 'tween Decks, Size and Spacing.....	WIDE SPACED PILLARS &					
" " " " "	DEEP GIRDERS IN HOLD &					
" in Holds " "	TWEEN DE AS APPROVED. ✓					
" " " " "						
<b>Centre Line Bulkhead.</b>						
Stiffeners and Spacing.....	✓					
Plating, thickness of .....	✓					
<b>STRINGERS AND DECKS.</b>						
<b>Uppermost Continuous Deck.</b>						
Stringer Plate, breadth and thickness in Wells	73"	.56	✓	68"	✓	
" " " " in way of Bridge	✓					
" Angle in Wells .....	6	6	.56	✓		
Thickness of Plating abreast Deck openings) in way of Wells .....			.47	✓		
Thickness of Plating abreast Deck openings) in way of Bridge BOILER CASING.....			.68	✓		
Thickness of Plating within line of openings...	.40	x	.38	✓		
If Sheathed, material and thickness .....	✓					
<b>Second Deck.</b>						
Stringer Plate, breadth and thickness in Wells...	59	.40	✓	.48"	✓	
Stringer Plate, breadth and thickness in way of Bridge						
Thickness of Plating abreast Deck openings) in way of Bridge						
Thickness of Plating abreast Deck openings) in way of Hold						
Thickness of Plating within line of openings...						
If Sheathed, material and thickness .....						
<b>Third Deck.</b>						
Stringer Plate, breadth and thickness.....						
If Plated, state thickness.....						
<b>Fourth Deck.</b>						
Stringer Plate, breadth and thickness.....						
If Plated, state thickness .....						
<b>Poop Deck.</b>						
Stringer Plate, breadth and thickness .....						
Plating, Sheathing, material and thickness ...						
<b>Bridge Deck.</b>						
Stringer Plate, breadth and thickness.....						
Plating, Sheathing, material and thickness ...						
<b>Forecastle Deck.</b>						
Stringer Plate, breadth and thickness.....						
Plating, Sheathing, material and thickness ...						

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	UPPER EDGES. State if jogged? <i>No.</i> ✓			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth. Inches.	Thickness. Inches.	Thickness. Inches.	Thickness. Inches.			Diam. Inches.	Spacing cr. to cr. Inches.		Diam. Inches.	Spacing cr. to cr. Inches.		
FLAT PLATE KEEL .....	<i>52</i> ✓	<i>.78</i> ✓	<i>.68</i> ✓	<i>.68</i> ✓		<i>DOUBLE</i> ✓	<i>1"</i> ✓	<i>3 1/2"</i> ✓	<i>4R - 3R</i> ✓	<i>1 1/2 7/8"</i> ✓	<i>4 x 3 1/8"</i> ✓	<i>LAPPED.</i> ✓	
" <i>DBLG. (if any)</i>	<i>3 STRAKES</i>	<i>BOTTOM SHELL (P &amp; S) NEXT KEEL.</i>				<i>{ .62 FROM 1/2 LTH FORW TO 3/5 LTH ✓</i> <i>.66 " 3/5 LTH TO COLL BHP ✓</i>							
BOTTOM PLATING, No. of Strakes .... <i>4</i> .....		<i>.56</i> ✓	<i>.50</i> ✓	<i>.50</i> ✓		<i>DOUBLE</i> ✓	<i>7/8"</i> ✓	<i>3 3/8"</i> ✓	<i>3R</i> ✓	<i>7/8"</i> ✓	<i>3 1/8"</i> ✓	" ✓	
BILGE PLATING, No. of Strakes ..... <i>1</i> .....		<i>.56</i> ✓	<i>.50</i> ✓	<i>.50</i> ✓		" ✓	" ✓	" ✓	" ✓	" ✓	" ✓	" ✓	
SIDE PLATING, No. of Strakes ..... <i>5</i> .....		<i>.56</i> ✓	<i>.46</i> ✓	<i>.46</i> ✓		" ✓	" ✓	" ✓	" ✓	" ✓	" ✓	" ✓	
UPPER DECK, Sheer- strake in Wells .....	<i>51 1/2</i> ✓	<i>.68</i> ✓	<i>.46</i> ✓	<i>.46</i> ✓	<i>51"</i> ✓				<i>4R - 3R</i> ✓	" ✓	<i>3 1/2 x 3 1/8"</i> ✓	" ✓	
UPPER DECK, Sheer- strake in Bridge ...													
STRAKE BELOW Sheer- strake in Wells .....	<i>51 1/2</i> ✓	<i>.64</i> ✓	<i>.46</i> ✓	<i>.46</i> ✓	<i>51"</i> ✓	"	"	"	<i>4R - 3R</i> ✓	"	"	" ✓	
STRAKE BELOW Sheer- strake in Bridge ...													
POOP SIDE PLATING .....													
BRIDGE SIDE PLATING ...													
FOREC'TLE SIDE PLATING			<i>.40</i> ✓			<i>SINGLE</i> ✓	<i>3/4"</i> ✓	<i>3"</i> ✓	<i>1R</i> ✓	<i>3/4"</i> ✓	<i>2 5/8"</i> ✓	" ✓	

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
Total No. of W.T. BULKHEADS in Vessel—	6 ✓					
Extending to Upper Deck (Sec. 3 c)	1 ✓					
„ Deck next below	5 ✓					
As per Rule	7 (See letter re omission of bulkhead attached. 4 FEB 1904 INDUS.)					
MIDSHIP BULKHEAD, Upper tween decks						
„	„ Second „					
„	„ Third „					
„	„ Holds N° 26	39-30 ✓	B.A. 12 x 3 1/2 x 45 ✓	30" ✓	✓	✓
COLLISION „ (in Hold) .....		47-29 ✓	B.A. 10 x 3 1/2 x 46 ✓	24" ✓	2 SEMI BOX BEAMS 8 N.T. FLAT. ✓	
AFTER PEAK „ „ .....		43-30 ✓	11 x 3 1/2 x 50 BA ✓ ABOVE RECESS 7 x 3 x 32 BA ✓ BELOW RECESS ✓	24" ✓	TUNNEL RECESS ✓	

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar .....				
STEM .....	ROLLED STEEL	10" x 2 1/2"		
STERN FRAME {	CASTING	AS PER	STEEL CO	
{ Propeller Post .....			OF	
{ Rudder " .....	"	APP PLAN	SCOTLAND L <sup>D</sup>	
Speed of Vessel .....	10 1/2			
RUDDER—Type .....	ORDINARY			
" A x D .....	HHH			
" Diam. of head .....	FORGING	10" DIA	GROSSE	
" Mainpiece at top pintle .....	"	10"	FORGER	
" " heel ...	"	7 1/2	USINES DE LA	
" how constructed .....		BUILT	FORGING	
" double or single plate .....		SINGLE PLATE	98	
" coupling, vertical or .....		HORIZONTAL		
" horizontal .....				

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open hearth process.*

*Colvilles Ltd. Dorman Long & Co Ltd; Steel Company of Scotland Ltd.*

Has the Steel been tested as required by the Rules? *Yes. ✓*



EQUIPMENT No. 38279											LETTER	a	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.
98710	1st Bower ...	69	0	7	Stockless			53	7	2	0	68 ✓	BYERS	S. TAYLOR & SONS L <sup>d</sup>	NETHERTON 12-1-40
98709	2nd " ...	68	2	21	"			53	1	3	14	68 ✓	□°	□°	J. A. RELF.
98715	3rd " ...	59	0	14	"			47	16	2	7	58½ ✓	□°	□°	□° 13-1-40
	Collective weight.	196	3	14 ✓								194½ ✓			
98457	Stream .....	19	0	14 ✓	4	3	9 ✓	19	19	2	21	19 ✓	ORDINARY	□°	□° 16-9-39.

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.	Statu- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Tons.	Fathoms.
112239	270	2"	100-8	141-1	588-3-0	✓	270	2"	STUD LINK TAYCO	S. TAYLOR & SONS	NETHERTON 12-1-40 J. A. RELF.	TOWLINE...	120	4 3/4	64-6	120	4 3/4
112240	14	2"	100-8	141-1	31-0-12	✓	(2 1/2" weight 120)	14"	□°	□°	□°	HAWSERS & WARPS }	2290	2 3/4	15-2	2290	2 3/4
227795	28H				619-3-12								"	2290	2 1/2	13-2	2290
		Cir.						Cir.				"					
Iron Stream Chain or Steel Wire	90	5"	52-8				90	5"	G.S.N.			"					

Steering Gear, Type (Power or hand) *by Harte & Co. Ltd.* Alternative Means of Steering *by relieving tackle worked from aft wheel*

Steering Chains (Size and Test) *Telemotor Gear.* Windlass *Steam by Clarke Chapman.* Boats *4 Lifeboats {22' 27" x 8' 25" x 3' 46" 22' 20" x 6' 73" x 2' 72"}*

Ceiling in Holds, thickness and material *2 1/2" N.P. over timbers only.* Cargo Battens, thickness, material and spacing *6" x 2 1/2" P in Holds & Ls Decks spaced 9"*

Cargo Hatchways. (Upper Deck) *Steel beamings & angles.* Thickness of Hatches *2 3/8" Solid covers.*

Size of Hatchways No. 1 (Fwd.) *29' 3" x 20' 0"* No. 2 *29' 3" x 20' 0"* No. 3 *24' 9" x 20' 0"* No. 4 *29' 3" x 20' 0"* No. 5 *29' 3" x 20' 0"* No. 6

Number of Shifting Beams and/or Fore and Afters *5 webs in Nos 1, 2, 4 & 5 Hatches; 4 webs in No 3 Hatch.*

Builder's Signature *For CHARLES CONNELL & CO., Limited*  
*J. W. Callum* SECRETARY

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 *Motor Ship.*

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *No.* 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 vessel has been built in accordance with the approved Plans, the Secretary's letters of various dates & in general conformity with the Society's Rules for the class contemplated.*

*The materials & workmanship are good.*

*The Double Bottom Tanks, Lufferdams, Fore Peak Tank & the After Peak Tank were tested as required by the Rules & found satisfactory.* Oil fuel is carried in

*Nos 3, 5 & 6 Double Bottom Tanks. F.P. above 150° F.H. Sec 20 of the Rules complied with where applicable.*

*Weather Decks, Shaft Tunnel & V.T. Bulkheads were hose tested & found satisfactory.*

*Lifeboard verified & marks set in.*

*Windlass & Steering Gear tried under working conditions & found satisfactory.*

The amount of Entry Fee ..... £ 9 : 0 : 0 Fees applied for, **2 APR 1940** (Special notations, where part of class, to be stated.)

Special Survey Fee.... £ 329 : 14 : 6 Received by me, *8-4-1940*

*FREEBOARD.*  
*Travelling Expenses, if any £ 16 : 0 : 0*

I am of opinion the Vessel should be Classed **\* 100A1 WITH FREEB\***  
*"1 INTERMEDIATE BH DISPENSED WITH"*  
*"Coll BH to Shelter Deck; SBH to Second Deck"*

State whether the Vessel has been built under Special Survey *YES.* Signature *R. Dunsmuir*  
 Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Glasgow.* Date of issue *11/4/40*

Committee's Minute **GLASGOW 2 APR 1940**

Character assigned *- 100A1 3.40*  
*with freeboard*

*Lloyd's Assoc.* *- 100A1 3.40* *all by*  
*2 SB 120 lb*

*1 Intermediate BH dispensed with.*  
*Coll. BH. to shelter Deck; SBH. to second Deck.*



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.)

This vessel is a sister to "INDUS" Sls Rep N<sup>o</sup> 61982.

List of Plans.

- (1) Midship Section.
- (2) Profile
- (3) Sternframe & Rudder.
- (4) Decks.
- (5) Fore end strengthening.
- (5)<sup>A</sup> (6) Panking Arrangements.
- (7) Bulkheads.
- (8) Tunnel.
- (9) Pillars & Girders
- (10) Construction in way of Boilers
- (11) Engine Seating.
- (12) Cruiser Stern.
- (13) Stern casting.
- (14) Hatch Webs.
- (15) Hatches.
- (16) Emergency Steering.
- (17) Pumping
- (18) Hatch web ends to suit  
Rieth Rollers.
- (19) Quadrant & Tiller.

Midship Section (as built).

Castings & Forgings  
Sternframe & Stern casting  
Rudder stock & mainpiece.  
Quadrant & Tiller.

PARTICULARS OF ELECTRIC WELDING (if employed)

Queen Deck pillars welded head & heel, & other minor details.

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

"Wireless." "Cruiser Stern" "Oil Engine" "Lloyds A & CP" "10K and Shelter Deck"  
"1 Intermediate BH dispensed with" "Bell BH to Shelter Deck"; "SBH to Second deck"

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	WEIGHT, HEAD & PIN. 46-0-13	SURV <sup>r</sup> INITIALS H. H.	N <sup>o</sup> CERT. 10238	DATE OF TEST 8-9-39.
	2nd "	44-2-7 ✓	G. B.	30006	29-4-38
	3rd "	36-2-0 ✓	E. E.	10373	33-0-14.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., {Forecastle 34' 25" ft. on Super<sup>2</sup>

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

Official No. 167409 Signal Letters Extreme Breadth over Belting ✓ (Circ. 1611) Over-all Length 431'-6" (Circ. 1703)

No. and Material of Decks 10K AND SHELTER DECK.

Parts of Bottom of Vessel coated with cement or approved composition Portland Cement in Water Ballast 10 B. Tanks and in Peak 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,	126.0	382	Fore peak tank,	24.0	175
Double bottom, under Engines and Boilers,	24.75	120	After peak tank,	26.0	260
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only, 3 COFFERDAMS.	6.75		Deep tank, forward,		
Double bottom, forward,	195.75	821	Other tanks, if fitted,		
Total length (if continuous) and Capacity	353.25	1323	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 6401

Date

7. 4. 39

Dates of Surveys held while building

1939 May. 3, 10, 16, 25, 30 June. 1, 6, 13, 20, 23, 28 July. 4, 11, 28, Aug. 1, 8, 14, 16, 22, 28, 29, Sept. 1, 6, 8, 12, 14, 20, 26, 28, 29, Oct. 3, 6, 9, 12, 16, 20, 28, 26, 31, Nov. 2, 7, 14, 20, 22, 27, 29, Dec. 1, 4, 7, 11, 13, 14, 18, 22, 27, 29 1940 Jan. 8, 10, 12, 16, 17, 22, 30 Feb. 2, 7, 8, 21, 26, Mar. 5, 17, 18, 26. Total No. of Visits 72.