

Rpt. **DISCLOSED**  
**SECTION**

# STEEL STEAMER or MOTORSHIP.

Received at London Office **11-8-1940**

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

State if Report is sent on the Machinery of the Vessel *yes*

Date of completion of report **7<sup>th</sup> May 1940**

Port of **Sunderland**

No. **32,866**

Survey held at **Sunderland**

Date First Survey **3 Oct. 1939**

Last Survey **1 May 1940**

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

**SS. GRAIGLAS Single Screw.**

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

**Full Scantling**

State Type of Erections **Poop, Long Bridge etc.**

TONNAGE under Tonnage Deck... **3963.99**

CLASS **+100 A-1.**

State if with freeboard as condition of Class **No.**

Built at **Sunderland**

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 380'-0"**

Launched **23.2.40** Yard No. **598**

Total

Breadth (greatest moulded) **B 54'-5"**

Builders **Messrs J.L. Thompson & Sons Ltd.**

Gross Tonnage **4312.22**

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) **D 26'-4 1/2"**

Owners **The Graig Shipping Co. Ltd**

Register Tonnage **2548.67**

1st Longitudinal Number (L x D) = **10020**

Managers **✓**

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

2nd Numeral L x (B + D) = **30700**

Residence **✓**

## REGISTERED DIMENSIONS.

FEET.

Length **389.3**

Framing Depth "d," at middle of length. See Sec. 3 (1d) **14'-4 1/2"**

Port of Registry **CARDIFF**

Breadth **54.7**

Proportions—Depth to Length—Uppermost continuous deck to top of keel **10.90**

If surveyed while building, afloat, or in dry dock **YES.**

Depth **24.2**

Breadth Moulded **23'-1 3/8"**

## 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.
<b>FRAMES, Spacing amidships</b>	<b>30</b> ✓		<b>Bracket Floors, Frame</b> <b>L. NBS.</b>	<b>6 x 3 1/2 x 34</b> ✓	
" " from 1/3 length amidships to Collision bulkhead	<b>27</b> ✓		" " Reversed Frame <b>L. NBS.</b>	<b>5 x 3 x 36</b> ✓	
" " in peaks	<b>24</b> ✓		" " Vertical Struts	<b>2 x 8 x 3 x 38 d.</b> ✓ <b>10 x 5 x 3 x 36 L</b> ✓	
<b>FRAME FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	<b>40 x 48</b> ✓	
Frame Amidships, Angle, [ or ]	<b>12 x 3 1/2 x 3 1/2 46</b> ✓		" " top Angles	<b>3 x 3 x 42</b> ✓	
" " Extends up to	<b>UPPER DECK</b> ✓		" " bottom Angles	<b>4 x 4 x 48</b> ✓	
<b>Reversed Frame Amidships, Angle</b>	✓		<b>Side Girders, No. each side and thickness</b>	<b>10 x 34</b> ✓	
" " Extends up to	✓		<b>Margin Plate depth (excl. of flange) and thickness</b>	<b>32 1/2 x 48</b> ✓	
<b>Depth of Framing Girder</b>	<b>12</b> ✓		" " Vertical Angle to Tank side	<b>3 1/2 x 3 1/2 x 38</b> ✓	
<b>Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]</b>	<b>6 x 3 1/2 x 32</b> ✓	<b>app'd 6 x 3 1/2 x 28</b> ✓	" " Bracket abaft 1/2 len. from stem	<b>5 x 5 x 38</b> ✓	
" " Second 'tween Decks, Angle, [ or ]	✓		" " Vertical Angle to Tank side	<b>10 x 36 1/2 2" continuous</b> ✓	
" " Third " " " "	<b>12 x 3 1/2 x 3 1/2 46</b> ✓	<b>60 d. @ 30"</b> ✓	" " Gussets, spacing and scantling	<b>15 x 36 1/2 2" continuous</b> ✓	
" " from 1/2 len. for'd. to 15% len. from Stem	<b>12 x 3 1/2 x 3 1/2 46</b> ✓	<b>60 d. @ 27"</b> ✓	" " Gussets, spacing and scantling	<b>41 x 43</b> ✓	
" " in Peaks, Angle or [	<b>7 x 3 1/2 x 38</b> ✓		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	<b>60 x 47</b> ✓	
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b>	<b>7/8 5 3/4</b> ✓		<b>INNER BOTTOM PLATING.</b>		
<b>State if Frame Joggled</b>	<b>YES.</b> ✓		Breadth and thickness of Middle Line Strake	<b>42</b> ✓	
Are the scantlings and arrangements in the <b>Panting Area</b> in accordance with the Rules and/or as approved?	<b>YES.</b> ✓		Thickness of remainder in Holds	<b>YES.</b> ✓	
Are the scantlings and arrangements in way of the <b>Bottom Forward</b> in accordance with the Rules and/or as approved?	<b>YES.</b> ✓		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?		
<b>DOUBLE BOTTOM.</b>			<b>BEAMS.</b>		
<b>Floors, Depth and thickness at mid-line in Holds</b>	✓		<b>Uppermost Continuous Deck, amidships</b>	<b>11 x 3 1/2 x 48</b> ✓	
Height of Brackets at side above base line at toe of frame	✓		" " in Way, Angle, [ or ]	✓	
<b>Middle Line Keelson, on Floors, Angles, [ or ]</b>	✓		" " in way of Bridge, Angle, [ or ]	✓	
" " Through Plate or Intercoastal Plate	✓		Spacing	<b>every</b> ✓	
" " Foundation Plate on Floors	✓		<b>Second Deck, amidships, Angle, [ or ]</b>	✓	
" " Flat Plate Keel Angles	✓		Spacing	✓	
<b>Double Keelsons, No. each side</b>	✓		<b>Third Deck, amidships, Angle, [ or ]</b>	✓	
" " thickness of Intercoastal Plate	✓		Spacing	✓	
" " Angles	✓		<b>Fourth Deck, amidships, Angle, [ or ]</b>	✓	
<b>DOUBLE BOTTOM.</b>			Spacing	✓	
<b>Solid Floors, thickness and spacing</b>	<b>36 every 3"</b> ✓		<b>Poop Deck, Angle, [ or ]</b>	<b>8 x 3 x 36</b> ✓	
" " Are Frame and Reversed Frame joggled?	<b>YES.</b> ✓		Spacing	<b>every</b> ✓	
<b>Bracket Floors, breadth and thickness at middle line</b>	<b>30 x 39</b> ✓		<b>Bridge Deck, Angle, [ or ]</b>	<b>9 x 3 1/2 x 46</b> ✓	
" " breadth and thickness at margin plate	<b>39</b> ✓		Spacing	<b>every</b> ✓	
			<b>Forecastle Deck, Angle, [ or ]</b>	<b>8 x 3 x 46</b> ✓	
			Spacing	<b>every</b> ✓	

# 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.
<b>PILLARS, No. of Rows.....</b>		✓			Stringer Plate, breadth and thickness in way of Bridge .....		✓		
„ in 'tween Decks, Size and Spacing.....		✓			Thickness of Plating abreast Deck openings in way of Wells .....		✓		
„ „ „ „ „		✓			Thickness of Plating abreast Deck openings in way of Bridge .....		✓		
„ in Holds „ „		✓			Thickness of Plating within line of openings...		✓		
„ „ „ „ „		✓			If Sheathed, material and thickness .....		✓		
<b>Centre Line Bulkhead.</b>					<b>Third Deck.</b>				
Stiffeners and Spacing.....	11 x 3 1/2 x 42 69 & as app'd			✓	Stringer Plate, breadth and thickness.....		✓		
Plating, thickness of .....	5' 0' apart			✓	If Plated, state thickness.....		✓		
<b>STRINGERS AND DECKS.</b>					<b>Fourth Deck.</b>				
<b>Uppermost Continuous Deck.</b>					Stringer Plate, breadth and thickness.....		✓		
Stringer Plate, breadth and thickness in Wells	74 ft x see plan				If Plated, state thickness .....		✓		
„ „ „ „ in way of Bridge	72 ft				<b>Poop Deck.</b>				
„ Angle in Wells .....	64 x 38			✓	Stringer Plate, breadth and thickness .....		34		✓
Thickness of Plating abreast Deck openings in way of Wells .....	6 x 6 x 60			✓	Plating, Sheathing, material and thickness ...	26, 2 1/2" Borneo			✓
Thickness of Plating abreast Deck openings in way of Bridge .....	70			✓	<b>Bridge Deck.</b>				
Thickness of Plating within line of openings...	34			✓	Stringer Plate, breadth and thickness.....	57 x 49			✓
If Sheathed, material and thickness .....	32			✓	Plating, Sheathing, material and thickness ...	42			✓
<b>Second Deck.</b>					<b>Forecastle Deck.</b>				
Stringer Plate, breadth and thickness in Wells...	✓				Stringer Plate, breadth and thickness.....	34			✓
					Plating, Sheathing, material and thickness ...	34			✓

## SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? No		RIVETS.		RIVETS.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.		No. OF ROWS OF RIVETS.		Diam.	Spacing or to cr.
	Inches.	Inches.	Inches.	Inches.						Inches.	Inches.
FLAT PLATE KEEL .....	49 1/2	72	64	64		D ✓	7/8 3 1/3	4		7/8 3 1/2	L
„ DBLG. (if any)											
BOTTOM PLATING, No. of Strakes A, B, C.....		60	66	50		D ✓	7/8 3 1/3	3		7/8 3 1/8	L
BILGE PLATING, No. of Strakes D, E, F.....		60	53	48		D ✓	7/8 3 1/3	3		7/8 3 1/8	L
SIDE PLATING, No. of Strakes G, H.....		60	53	42		D ✓	7/8 3 1/3	3		7/8 3 1/8	L
UPPER DECK, Sheer-strake in Wells.....		72				D ✓	7/8 3 1/3	4		7/8 3 1/2	L
UPPER DECK, Sheer-strake in Bridge ...	60	60				D ✓	7/8 3 1/3	3		7/8 3 1/8	L
STRAKE BELOW Sheer-strake in Wells.....	-	60				D ✓	7/8 3 1/3	3		7/8 3 1/8	L
STRAKE BELOW Sheer-strake in Bridge ...	71	60	42	42		D ✓	7/8 3 1/3	3		7/8 3 1/8	L
POOP SIDE PLATING .....		✓	✓	38		S ✓	3/4 3	1		3/4 2 5/8	L
BRIDGE SIDE PLATING ...		59	✓	✓		D ✓	7/8 3 1/3	4		7/8 3 1/2	L
FORECASTLE SIDE PLATING		✓	40			S ✓	3/4 3	1		3/4 2 5/8	L

## WATERTIGHT BULKHEADS.

<b>Total No. of W.T. BULKHEADS in Vessel—</b>	
Extending to Upper Deck (Sec. 3 c)	6 ✓
„ Deck next below	✓
As per Rule	6 ✓

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
<b>KEEL, Bar .....</b>				
<b>STEM .....</b>				
<b>STERN FRAME</b> { Propeller Post .....				
„ { Rudder „ .....				
<b>Speed of Vessel .....</b>				
<b>RUDDER—Type.....</b>				
„ A x D .....				
„ Diam. of head .....				
„ Mainpiece at top pintle				
„ „ heel ...				
„ how constructed .....				
„ double <del>single</del> plate coupling, vertical or horizontal.....				

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<b>MIDSHIP BULKHEAD, Upper tween decks</b>	✓				
„ „ Second „	✓				
„ „ Third „	✓				
„ „ Holds No 80.....	✓	38-26 1/2 x 44	30"		
<b>COLLISION</b> „ (in Hold) .....	✓	48-26 9 x 3 1/2 x 42	24"	Stringer	
<b>AFTER PEAK</b> „ „ .....	✓	47-30 7 x 3 x 33	24"	Racer top 34.5 S.B. beam.	

<b>STEEL.</b>	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
	Largo Fleet, Steel Co. of Scotland Shinningrove, Appleby Road, South Durham.
	Sorman Long, Colville, Consett.
	Has the Steel been tested as required by the Rules? YES.

EQUIPMENT No 32977 ✓										LETTER 4 ✓		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.			
39301	1st Bower ...	60	2	0	<div></div>	<div></div>	<div></div>	48	12	2	0	60 ✓	Stockless	✓	L.P.H.S. 18.12.39 WVN.
39304	2nd „ ...	60	2	0				48	12	2	0	60 ✓	do.	✓	do. 20.12.39 do.
39289	3rd „ ...	50	3	7				42	18	1	21	50 1/2 ✓	do.	✓	do. 14.12.39 do.
	Collective weight	171	3	7								170 1/2 ✓			
96994	Stream .....	16	1	21	4	0	20	17	16	1	0	16 1/4	Iron Stock	S. Taylor & Son	L.P.H.N. 12.2.38 JAR

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.	
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
113913	228	1 7/8	8820	12320	438	2	15	645	3/4	270	2 1/4	3 Layco Steel Cable & Sons	5. Taylor & Sons	L.P.H.N. 10.4.40 JAR	TOWLINE...	120	4 3/4	47.0	120	4 3/4
											Rule for right iron				HAWSERS & WARPS	2090	2 3/4	15.2	2090	2 3/4
															"	2090	2 1/2	13.2	2090	2 1/2
Iron Stream Chain or Steel Wire	90	4 3/4								90	4 3/4				"					

Steering Gear, Type (Power or hand) Southern & Co. Ltd Alternative Means of Steering Auxiliary Block & Tackle

Steering Chains (Size and Test) Selemota Windlass Emerson leather Boats 2- 25' lifeboats

Ceiling in Holds, thickness and material 2 1/2" W.W. under hatches Cargo Battens, thickness, material and spacing 6x2" W.W. spaced 9"

Cargo Hatchways.—(Upper Deck) steel plates and angles Thickness of Hatches 3/8" steel Simplex Patent on exposed hatches

Size of Hatchways No. 1 (Fwd.) 27'x20' No. 2 32'6"x20' No. 3 20'x20' No. 4 32'6"x20' No. 5 27'6"x20' No. 6 ✓

Number of Shifting Beams N<sup>os</sup> 1-5 - 4 ; N<sup>os</sup> 2-4 - 5 ; N<sup>o</sup> 3 - 3.

Builder's Signature R. C. Thompson Managing Director

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 YES

(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).

Fuel oil (F.P. above 150°F) carried in Nos. 1, 2, 3, 5, 6 O.B. tanks

The vessel has been built in accordance with the approved plan, the Secretary's letter, and the Society's Rules.

The materials and workmanship are good.

The freeboard marks have been verified & cut in on the vessel's sides.

The double bottom tanks, fore & after peak, T.O. settling tanks, have been satisfactorily tested

The deck, hullhead, tunnel, ash chest, hand pump, W.T. doors have been tested & found good.

The windlass, steering gear, emergency steering gear, have been tested.

The following certificates are enclosed;— Stem Frame, Rudder Frame, Quadrant, Liller, Steel Hatches.

The amount of Entry Fee ..... £ 8 : : : Fees applied for, 7 MAY 1940

Special Survey Fee.... £290: 12: : Received by me, 15/5/1940

Freeboard Fee £15 : : : I am of opinion the Vessel should be Classed +100 A.1.

Travelling Expenses, if any £ : : : Signature W. E. C. Hullah Surveyor to Lloyd's Register of Shipping.

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

Certificate to be sent to SUNDERLAND. Date of issue 16/5/40

Committee's Minute TUE. 14 MAY 1940

Character assigned +100 A.1

Lloyd's arch.

OL. E.S.D.

+ Lamb 5.40

Fitted for oil fuel 5.40 H.P. above 150°F.

2 S.B. (Spt) 32. } 220 H.W.

1 amp S.B.

note for S.R.D.

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.)

Plans of midship section, profile, and decks as built, are being prepared & will be forwarded in due course.

PARTICULARS OF ELECTRIC WELDING (if employed) Rudder partly welded.

T.S. Gussets welded to tank top, and to T.S. brackets.

Masts and derrick posts, ventilator coaming, small hatch coaming, main hatch side stay, welded to deck.

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

Fitted for oil fuel 5,40 F.P. above 150° F

Cruiser Stern  
D.F., E.S.D.

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

including pin

1st Bower

39 0 7

J.D.

2174

9-9-39

2nd "

38 2 14

J.D.

2029

4-7-39

3rd "

32 0 14

J.D.

1982

6-6-39

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 40.33 ft., R.Q.D. ft., Bridge 234.25 ft., Forecastle 39.08 ft.

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

Official No. 167801

Signal Letters

Extreme Breadth over Belting

Over-all Length

404-8 1/2"

No. and Material of Decks

1 Deck (steel)

Poop, Long Bridge, & 4 Deck (steel)

404.7

Parts of Bottom of Vessel coated with cement or approved composition

Cement in No 4 Tank only.

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,	122.5	253	Fore peak tank,	21.5	103
Double bottom, under Engines and Boilers,	42.5	67	After peak tank,	20.0	153
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	168.75	508	Other tanks, if fitted,		
Total length (if continuous) and Capacity	333.75	828	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 5901

Date 20.4.39

Dates of Surveys held while building

1939. Oct. 3. 4. 6. 18. 19. 20. 23. 24. 25. 27. Nov. 1. 2. 9. 13. 16. 20. 22. 23. 27. 28. Dec. 1. 4. 5. 13. 15. 18. 20. 22. 27. 29. 1940. Jan. 2. 3. 5. 8. 11. 19. 26. 29. 30. Feb. 1. 5. 7. 9. 12. 14. 16. 19. 21. 22. 23. 26. 28. Apr. 1. 2. 3. 4. 5. 8. 9. 10. 12. 15. 16. 17. 18. 19. 22. 23. 25. 26. 29. May 1.

Lloyd's Register  
Foundation

Total No. of Visits

72