

## STEEL STEAMER or MOTORSHIP.

FERRY.

Received at London Office NOV 1 1939

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 28<sup>th</sup> OCTOBER 1939.

Port of GLASGOW.

No. 61681

Survey held at PAISLEY.

Date First Survey 13<sup>th</sup> DECEMBER 38. Last Survey 23<sup>rd</sup> OCT. 1939.

On the (State if Machinery fitted Aft and)

TWIN SCREW (D.E.) "ABERCRAIG"

State Type (Full Scantling, Complete Sub-structure with or without Tonnage Openings)

MOTOR FERRY BOAT

State Type of Erections BRECASTLE

TONNAGE under Tonnage Deck... 354.25

CLASS A-1 FOR SERVICE ON RIVER TAY.

State if with freeboard as condition of Class

No.

Built at PAISLEY.

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

Length (between perpendiculars of stem and stern) (1a) L 166

Launched 4<sup>th</sup> JULY 1939.

Yard No. 550

Total

354.25

Breadth (greatest moulded) B 36'-0 5/8"

Builders FLEMING &amp; FERGUSON

Gross Tonnage

445.27

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 8'-3 5/8"

Owners DUNDEE HARBOUR TRUST

Register Tonnage

191.32

1st Longitudinal Number (L x D) = \* 1370

Managers DUNDEE HARBOUR TRUST

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

2nd Numeral L x (B + D) = \* 7346

Residence

## REGISTERED DIMENSIONS.

FEET.

Length 166.0

Breadth 36.1

Depth 7.85

Framing Depth "d," at middle of length. See Sec. 3 (1d) 7.59

Proportions—Depth to Length—Uppermost continuous deck to top of keel 20.12

Do. Long Bridge to top of keel

Draught Moulded 5.0'

\* SCANTLINGS ADJUSTED TO SUIT CLASS OF VESSEL

Port of Registry DUNDEE

If surveyed while building, afloat, or in dry dock

WHILE BUILDING.

## 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.
ES, Spacing amidships	24" ✓		Bracket Floors, Frame		
" from 1/2 length amidships to Collision bulkhead	24" ✓		" " Reversed Frame		
" in peaks	24" ✓		" " Vertical Struts		
FRAMING.			Centre Girder, depth and thickness amidships		
ne Amidships, Angle, 4" 2 1/2 28 30 IN E.R. ✓			" " top Angles		
" Extends up to UPPER DECK ✓			" " bottom Angles		
Reversed Frame Amidships, Angle CHANNEL FLOORS ✓			Side Girders, No. each side and thickness		
" Extends up to ACROSS SHIP ✓			Margin Plate depth (excl. of flange) and thickness		
th of Framing Girder 4" ✓			" " Vertical Angle to Tank side		
mes in Uppermost Continuous 'tween Decks, Angle, [ or [ ✓			Bracket abaft 1/2 len. from stem		
" Second 'tween Decks, Angle, [ or [ ✓			" " Vertical Angle to Tank side		
" Third " " " ✓			Bracket from forward 1/2 len. from stem to Panting Area		
from 1/2 len. for'd. to 15% len. from Stem ✓			" " Gussets, spacing and scantling abaft 1/2 len. from stem		
in Peaks, Angle 4" 2 1/2 28 ✓			" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area		
meter and Spacing of Rivets through Frame and Shell Plating amidships 5/8" 4 1/2" ✓			Tank Side Brackets, height above base line at toe of Frame and thickness		
te if Frame Joggled 7/10 ✓			INNER BOTTOM PLATING.		
the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? ✓			Breadth and thickness of Middle Line Strake		
the scantlings and arrangements in way the Bottom Forward in accordance with the Rules and/or as approved? ✓			Thickness of remainder in Holds		
LE BOTTOM.			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? ✓		
ors, Depth and thickness at mid-line in Holds 8.3" 3" 15.96 lbs 17 lbs IN E.R. ✓			BEAMS.		
Height of Brackets at side above base line at toe of frame			Uppermost Continuous Deck, amidships	6" 3" 34 lbs ✓	
Idle Line Keelson, on Floors, Angles, [ or [ ✓			" " in Wells, Angle, [ or [ ✓		
" " Intercostal Plate 28" 30 IN E.R. ✓			" " in way of Bridge, Angle, [ or [ ✓		
" " Top Angle 3 1/2" 3" 34" Double ✓			Spacing EVERY FRAME ✓		
" " Flat Plate Keel Angles 3" 3" 30" Double ✓			Second Deck, amidships, Angle, [ or [ ✓		
e Keelsons, No. each side 7 No. ✓			Spacing ✓		
" thickness of Intercostal Plate 26" 4" 3" 30" SINGLE ✓			Third Deck, amidships, Angle, [ or [ ✓		
" " Angles 2 1/2" 2 1/2" 26" SINGLE ✓			Spacing ✓		
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle, [ or [ ✓		
Solid Floors, thickness and spacing			Spacing ✓		
" " Are Frame and Reversed Frame joggled? ✓			Poop Deck, Angle, [ or [ ✓		
Bracket Floors, breadth and thickness at middle line			Spacing ✓		
" " breadth and thickness at margin plate			Promenade Deck, Angle, [ or [ ✓	5 1/2" 3" 30" ✓	
			Spacing 48" ✓		
			Forecastle Deck, Angle, [ or [ ✓	4 1/2" 3" 34" ✓	
			Spacing 48" ✓		



## 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>		<i>BUILT PILLARS AND</i>				Stringer Plate, breadth and thickness in way of Bridge .....					
" in 'tween Decks, Size and Spacing.....		<i>DEEP GIRDER ON</i>				Thickness of Plating abreast Deck openings in way of Wells .....					
" " " " " "		<i>UPPER AND</i>				Thickness of Plating abreast Deck openings in way of Bridge .....					
" in Holds " " " "		<i>ROMENADE DECKS</i>		✓		Thickness of Plating within line of openings...					
" " " " " "		<i>IS APPROVED</i>				If Sheathed, material and thickness .....					
<b>Centre Line Bulkhead.</b>						<b>Third Deck.</b>					
Stiffeners and Spacing.....		✓				Stringer Plate, breadth and thickness.....					
Plating, thickness of .....		✓				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		<i>30" x 40"</i>		✓		If Plated, state thickness .....					
" " " " " " <i>SPANSON DECK</i>		<i>15" x 25"</i>		✓		<b>Poop Deck.</b>					
" " " " " " <i>IN WAY OF SPANSON DECK</i>		<i>2 1/2" 2 1/2" 35" INTERCOSTAL</i>		✓		Stringer Plate, breadth and thickness .....					
Thickness of Plating abreast Deck openings in way of Wells .....		<i>20 GALVANIZED</i>		✓		Plating, Sheathing, material and thickness .....					
Thickness of Plating abreast Deck openings in way of Bridge .....		✓				<b>ROMENADE DECK.</b>					
Thickness of Plating within line of openings...		✓				Stringer Plate, breadth and thickness.....		<i>15" x 24"</i>		✓	
If Sheathed, material and thickness .....		<i>3" PITCH PINE</i>		✓		Plating, Sheathing, material and thickness .....		<i>15" x 40 THE PLATE</i>		✓	
<b>Second Deck.</b>						<b>Forecastle Deck.</b>					
Stringer Plate, breadth and thickness in Wells...		✓				Stringer Plate, breadth and thickness.....		<i>15" x 24"</i>		✓	
						Plating, Sheathing, material and thickness .....		<i>20 2 TEAK</i>		✓	

## SHELL PLATING.

SCANTLINGS.						RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		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.
FLAT PLATE KEEL .....	<i>35"</i>	<i>40"</i>	<i>50"</i>	<i>50"</i>	✓	<i>SINGLE</i>	<i>3/4"</i>	<i>3"</i>	<i>THREE</i>	<i>3/4"</i>	<i>2 5/8"</i>	<i>STRAPPED</i>
" DBLG. (if any) .....	✓	✓										
BOTTOM PLATING, No. of Strakes <i>3</i> .....		<i>28"</i>	<i>28"</i>	<i>28"</i>	✓	<i>SINGLE</i>	<i>5/8"</i>	<i>2 1/2"</i>	<i>TWO</i>	<i>5/8"</i>	<i>2 1/4"</i>	<i>LAPPED</i>
BILGE PLATING, No. of Strakes .....		<i>30"</i>	<i>28"</i>	<i>28"</i>	✓	<i>SINGLE</i>	<i>5/8"</i>	<i>2 1/2"</i>	<i>TWO</i>	<i>5/8"</i>	<i>2 1/4"</i>	<i>LAPPED</i>
SIDE PLATING, No. of Strakes .....		<i>28"</i>	<i>28"</i>	<i>28"</i>	✓	<i>SINGLE</i>	<i>5/8"</i>	<i>2 1/2"</i>	<i>TWO</i>	<i>5/8"</i>	<i>2 1/4"</i>	<i>LAPPED</i>
UPPER DECK, Sheer-strake in Wells.....	<i>3 1/2"</i>	<i>40"</i>	<i>28"</i>	<i>28"</i>	✓	<i>SINGLE</i>	<i>3/4"</i>	<i>3"</i>	<i>THREE</i>	<i>3/4"</i>	<i>2 5/8"</i>	<i>LAPPED</i>
UPPER DECK, Sheer-strake in Bridge ...	✓											
STRAKE BELOW Sheer-strake in Wells.....	✓											
STRAKE BELOW Sheer-strake in Bridge ...	✓											
POOP SIDE PLATING .....	✓											
BRIDGE SIDE PLATING ...	✓											
FORECASTLE SIDE PLATING	<i>57"</i>		<i>25"</i>		✓							

## WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) *SIX*

Deck next below

*APPROVED*  
As *per* *the**SIX*

## STIFFENERS.

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks	✓				
" " Second "	✓				
" " Third "	✓				
" " Holds .....	<i>30" x 26"</i>	<i>4" x 2 1/2" x 30"</i>	<i>29"</i>	✓	✓
<b>COLLISION</b> " (in Hold) .....	<i>30" x 26"</i>	<i>4" x 2 1/2" x 30"</i>	<i>25"</i>	✓	✓
<b>AFTER PEAK</b> " " .....	<i>32" x 28"</i>	<i>4" x 2 1/2" x 30"</i>	<i>28"</i>	✓	✓

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
<b>KEEL, <del>PLATE</del></b> .....	<i>PLATE</i>	<i>50</i>		
<b>STEM</b> .....	<i>PLATE</i>	<i>50</i>		
<b>STERN FRAME</b> { Propeller Post .....	<i>NONE</i>			
{ Rudder " .....	<i>NONE</i>			
<b>Speed of Vessel</b> .....	<i>10 3/4 KNOTS.</i>			
<b>RUDDER—Type</b> .....	<i>NONE</i>			
" A x D .....	<i>10 1/4 SCHNEIDER</i>			
" Diam. of head .....	<i>PROPULSION.</i>			
" Mainpiece at top pintle	✓			
" " heel ...	✓			
" how constructed .....	✓			
" double or single plate coupling, vertical or horizontal.....	✓			

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

STEEL.

*THE SOUTH DURHAM STEEL & IRON CO.**CARGO FLEET STEEL & IRON CO. LTD**THE STEEL COMPANY OF SCOTLAND.**COLVILL & CO.**THE LARNAKSHIRE STEEL CO.*

Has the Steel been tested as required by the Rules?

*YES*

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Lloyd's Register  
Foundation







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 1. STIFFENING UNDER TURNABLES.
2. ✓ KEELSON AND GIRDERS IN WAY OF PROPELLER TRUNK
3. ✓ PROPELLER TRUNK STRUCTURAL DETAILS.
4. ✓ AMENDED PLAN HULL SECTION.
5. ✓ AMENDED PROFILE, DECKS AND BULKHEADS.
6. ✓ ENGINE SEATING.
7. ✓ FRAME ARRANGEMENT AND GIRDERS.
8. ✓ SUPPORTS IN WAY OF TURNABLES.
- 9.

HULL SECTION AS FINISHED FORWARDED IN ADVANCE  
OWING TO DIFFICULTY OF STEERING VESSEL WHEN GOING AFTERN IT WAS FOUND NECESSARY TO FIT FINS FORWARD  
AND AFT AS SHOWN ON THE PLAN NOW FORWARDED.

PARTICULARS OF ELECTRIC WELDING (if employed)

MINOR DETAILS ONLY.

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

"OIL ENGINE" (JOINT SCHNEIDER PROPULSION).

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. ✓ ft., Bridge 80 ft., Forecastle 20 ft.

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

Official No. 166209 Signal Letters

Extreme Breadth over Belting 49' 4" (Circ. 1611)

Over-all Length 167' 5" (Circ. 1703)

No. and Material of Decks 1 DE STEEL AND WOOD SHEATHED

Parts of Bottom of Vessel coated with cement or approved composition

SHELL BOTTOM INSIDE PAINTED.

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,		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,			Ballast tank, aft,	8' 0"	25
Double bottom, if under Boilers only,			Ballast tank, forward,	14' 0"	38
Double bottom, forward,			Other tanks, if fitted,		
Total length (if continuous) and Capacity			(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 6428

Date 14.10.38

Dates of Surveys  
held while building

1938 Dec.: 13.22 (1939) Feb.: 21 Mar.: 1.3.14.22.28.30 Apr.: 4.7.13.19.20.25  
May.: 4.10.15.19.22 June.: 1.6.13.16.21.27.30 July.: 1.4.10.19.21.24 Aug.: 9.14  
16.18.22 Sep.: 5.12.13.15.18.20 Oct.: 11.12.13.23

Total No. of Visits 48