

# STEEL STEAMER ~~or~~ MOTORSHIP.

10 SEP 1946

*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. Yes

Date of completion of report 8<sup>th</sup> September 1926

Port of **NEWCASTLE-ON-TYNE.**

No. 80611

Survey held at Walker-on-Tyne

Date First Survey 5<sup>th</sup> March

Last Survey *8th September* 1936

On the (State if Machinery fitted Aft and  
(if Single, Twin or Triple Screw) *Steel Screw Steamer "MERNOO"*

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

State Type of Erections *Prop. Bride + Forecastle*

TONNAGE under } 2023.39  
Tonnage Deck... }

CLASS **+** 100 A1.

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

Built at Walker-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 285.0

Launched 26<sup>th</sup> July 1926 Yard No. 1220

**Total** 2023.39

**Breadth** (*greatest moulded*) ..... B 42.33

Builders. Swan Hunter & Wigham Richardson Ltd.

Gross Tonnage 2414.05

**Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) .....** D 22.50

Owners Melbourne Steamship Co. Ltd.

Register Tonnage 1404.66

**1st Longitudinal Number (L × D).....= 6412**

## Managers

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

**REGISTERED DIMENSIONS.**

**2nd Numeral**  $L \times (B + D) \dots\dots\dots = 18476$

Residence

285.30

**Framing Depth "d,"** at middle of length. See } 19.5  
Sec. 3 (1d) .....

Port of Registry *Melbourne*

42.70

**Proportions**—Depth to Length—Uppermost continuous deck to top of keel ..... } 12.6

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

20.40

Do. Long Bridge to top of keel } 9.5

**Draught Moulded** .....

Special Survey

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>IES, Spacing amidships</b> .....	24	
"    from $\frac{1}{2}$ length to Collision bulkhead.....	24	
"    in peaks.....	24	
<b>FRAMING.</b>		
<b>Time Amidships, Angle, [ or [</b> .....	9 3 $\frac{1}{2}$ 52	
"    Extends up to .....	Upper Deck	
<b>Reversed Frame Amidships, Angle</b> .....	Bulk Angle frame	
"    "    Extends up to...	- - -	
<b>Depth of Framing Girder</b> .....	9"	
<b>Angles in Uppermost Continuous 'tween Decks, Angle, [ or [</b> .....	- - -	
" <b>Second 'tween Decks, Angle, [ or [</b> .....	- - -	
" <b>Third</b> " " " " .....	- - -	
<b>Spacing in Peaks, Angle or [</b> .....	6 3 44	
<b>Center and Spacing of Rivets through Frame and Shell Plating amidships</b> .....	3/4" dia - 5/4" apart	
<b>Is the Frame Joggled</b> .....	Yes	
<b>FRAMING ARRANGEMENTS (Sec. 7), state system and particulars</b> .....	Deep framing 12 bul angles and 3 side stringers	
<b>STRENGTHENING OF BOTTOM FORWARD. State Particulars</b> .....	2 half height and one full depth intercostals forward of 3/5 length 5x5x40 frame bar on floors	
<b>DECK BOTTOM.</b>		
<b>Plating, Depth and thickness at mid-line in Holds</b> .....	- - -	
Height of Brackets at side above base line at toe of frame .....	- - -	
<b>Middle Line Keelson, on Floors, Angles, [ or [</b> .....	- - -	
"    "    Through Plate or Intercostal Plate...	- - -	
"    "    Foundation Plate on Floors .....	- - -	
"    "    Flat Plate Keel Angles .....	- - -	
<b>Keelsons, No. each side</b> .....	- - -	
"    thickness of Intercostal Plate...	- - -	
"    Angles .....	- - -	
<b>DECK BOTTOM.</b>		
<b>Plating, thickness and spacing</b> .....	3/4 - 24 apart	
"    Are Frame and Reversed Frame joggled? .....	Frame only	
<b>Bracket Floors, breadth and thickness at middle line</b> .....	- - -	
"    "    breadth and thickness at margin plate, .....	- - -	
<b>Bracket Floors, Frame</b> .....	- - -	
"    "    Reversed Frame .....	- - -	
"    "    Vertical Struts .....	- - -	
<b>Centre Girder, depth and thickness amidships</b> .....	36 x 44	
"    "    top Angles .....	Double 3 3 42	
"    "    bottom Angles .....	3 3 47	
<b>Side Girders, No. each side and thickness</b> .....	One 34	
<b>Margin Plate depth (excl. of flange) and thickness</b> .....	27 x 40 26 1/2 x 40	
"    "    Vertical Angle to Tank side Bracket abaft 1/4 len. from stem .....	3 3 34	
"    "    Vertical Angle to Tank side Bracket forward 1/4 len. from stem .....	3 3 34 and 5x5x40 in way of 1/2 framing and 3/5 length	
"    "    Gussets, spacing and scantling abaft 1/4 len. from stem .....	Every 3rd frame - 34	
"    "    Gussets, spacing and scantling forward 1/4 len. from stem .....	Every 2nd frame - 34	
<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b> .....	4 - 4 1/2 x 39	
<b>INNER BOTTOM PLATING.</b>		
Breadth and thickness of Middle Line Strake .....	45 1/2 x 41	
Thickness of remainder in Holds .....	35	
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	
<b>BEAMS.</b>		
<b>Uppermost Continuous Deck, amidships in Wells, Angle, [ or [</b> .....	7 1/2 3 37 1/2 7 1/2 x 3 x 36	
"    "    in way of Bridge, Angle, [ or [ .....	7 1/2 3 37 1/2 7 1/2 x 3 x 36	
Spacing .....	On every frame	
<b>Second Deck, amidships, Angle, [ or [</b> .....	- - -	
Spacing .....	- - -	
<b>Third Deck, amidships, Angle, [ or [</b> .....	- - -	
Spacing .....	- - -	
<b>Fourth Deck, amidships, Angle, [ or [</b> .....	- - -	
Spacing .....	- - -	
<b>Poop Deck, Angle, [ or [</b> .....	6 3 32	
Spacing .....	On every frame	
<b>Bridge Deck, Angle, [ or [</b> .....	6 3 35	
Spacing .....	On every frame	
<b>Forecastle Deck, Angle, [ or [</b> .....	6 3 32	
Spacing .....	On 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.
<b>PILLARS, No. of Rows...</b> 2					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.....					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					If Plated, state thickness				
"    "    "    "    in way of Bridge					<b>Poop Deck.</b>				
"    Angle in Wells					Stringer Plate, breadth and thickness				
Thickness of Plating abreast Deck openings in way of Wells					Plating, Sheathing, material and thickness				
Thickness of Plating abreast Deck openings in way of Bridge					<b>Bridge Deck.</b>				
Thickness of Plating within line of openings...					Stringer Plate, breadth and thickness.....				
If Sheathed, material and thickness					Plating, Sheathing, material and thickness				
<b>Second Deck.</b>					<b>Forecastle Deck.</b>				
Stringer Plate, breadth and thickness in Wells...					Stringer Plate, breadth and thickness.....				
					Plating, Sheathing, material and thickness				

## SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	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.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.		
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL .....	<i>45</i>	<i>60</i> ✓	<i>56</i>	<i>56</i>		<i>Double</i>	<i>7/8</i>	<i>3 1/16</i>	<i>3</i>	<i>7/8</i>	<i>3 1/8</i>	<i>Lapped.</i>	
„ DBLG. (if any)	—	—	—	—		—	—	—	—	—	—	—	
BOTTOM PLATING, No. of Strakes <i>2</i> .....		<i>48</i> ✓	<i>40</i>	<i>52+54</i>		<i>„</i>	<i>3/4</i>	<i>3</i>	<i>3</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Lapped</i>	
BILGE PLATING, No. of Strakes <i>2</i> .....		<i>48</i> ✓	<i>40</i>	<i>54+48</i>		<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	
SIDE PLATING, No. of Strakes <i>2</i> .....		<i>48</i> ✓	<i>40</i>	<i>48+40</i>		<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	
UPPER DECK, Sheer-strake in Wells.....	<i>59 1/2</i>	<i>75 at breaking bridge</i>					<i>„</i>	<i>7/8</i>	<i>3 1/16</i>	<i>„</i>	<i>7/8</i>	<i>3 1/8</i>	<i>„</i>
UPPER DECK, Sheer-strake in Bridge ...	<i>59 1/2</i>	<i>48</i>	<i>40</i>	<i>40</i>	<i>48x48-40</i>		<i>„</i>	<i>3/4</i>	<i>3</i>	<i>„</i>	<i>3/4</i>	<i>2 5/8</i>	<i>„</i>
STRAKE BELOW Sheer-strake in Wells.....		<i>48</i>	<i>40</i>	<i>40</i>			<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	
STRAKE BELOW Sheer-strake in Bridge ...		<i>48</i>					<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	<i>„</i>	
POOP SIDE PLATING .....		<i>33</i>				<i>single</i>	<i>3/4</i>	<i>„</i>	<i>2</i>	<i>„</i>	<i>„</i>	<i>„</i>	
BRIDGE SIDE PLATING ...		<i>49</i>				<i>Double</i>	<i>„</i>	<i>„</i>	<i>4</i>	<i>„</i>	<i>3</i>	<i>„</i>	
FORE'C'TLE SIDE PLATING		<i>35</i>				<i>single</i>	<i>„</i>	<i>„</i>	<i>2</i>	<i>„</i>	<i>2 5/8</i>	<i>„</i>	

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—						
Extending to Upper Deck (Sec. 3 c)		Four				
" Deck next below		✓				
As per Rule		Four				
		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings	Spacing.
MIDSHIP BULKH'D, Upper tween decks						
"	" Second "					
"	" Third "					
"	" Holds .....	37' 26"	9.5.44	30"	2. Vertical Webs at Bow 18x44. Face bar 6x32x50 B.A.	
COLLISION	" (in Hold) .....	40' 26"	9.5.50	24"	Semi backbone with J. H. B.A.	
AFTER PEAK	" No 7+11 .....	39' 30"	9.3.44	24"	7.5.40 as before	

## 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>RUDDER—A x D</b>				
<b>Speed of Vessel</b>				
<b>RUDDER</b> mainpiece at head				
"    heel				
how constructed				
double or single plate				
coupling, vertical or horizontal				

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Hearth, Pearse & Partners Ltd, Bessemer, Vaughan & Co. Ltd, Dorman Long & Co., South Durham Steel & Iron Co., Cargo Flat Iron Co., Consett Iron Co., Lanarkshire Steel Co.*

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

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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.)

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

1st Bower	<i>22-3-21, including pin</i>	<i>25-2-21, K.H., No. 3913, 27<sup>th</sup> May 1926.</i>
2nd "	<i>22-3-3,</i>	<i>" 25-2-7, K.H., No. 3912, 27<sup>th</sup> May 1926.</i>
3rd "	<i>19-3-2,</i>	<i>" 22-0-7, K.H., No. 3899, 27<sup>th</sup> May 1926.</i>

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Poop *26-0* ft., R.Q.D. ☒ ft., Bridge *168-0* ft., Forecastle *29-0* (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *The Poop is not joined to the Bridge Deck.*

No. and Material of Decks (this information is to be given as it should appear in the Register Book) *18<sup>th</sup> (Stl)*

Official No. ☒ ; Signal Letters ☒ Is bottom of Vessel coated with cement *Yes* if not g  
particulars of composition ☒

**PARTICULARS OF WATER BALLAST.**—

Where Fitted.	*Length.	Water Capacity.	Where Fitted.	*Length.	Water Ca
	Feet.	Tons.		Feet.	Ton
Double bottom, aft,	94-0	211	Fore peak tank,	21-0	97
Double bottom, under Engines and Boilers,	38-0	115	After peak tank,	22-0	139
Double bottom, if under Engines only,	—	—	Deep tank, aft,	—	—
Double bottom, if under Boilers only,	—	—	Deep tank, forward,	—	—
Double bottom, forward,	110-0	278	Other tanks, if fitted,	—	—
Total capacity of double bottom		604	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. *5170*

Date *19.3.26.*

Dates of Surveys held while building

*1926*

*Mar. 5. 8. 11. 16. 18. 22. 29. 30. 31. Apr. 1. 8. 9. 12. 13. 20. 30. May 5. 12. 26. 28. June 3. 6. 8. 14. 15. 17. July 1. 5. 6. 7. 8. 9. 12. 13. 14. 15. 21. 26. Aug. 18. 19. 20. 24. 25. 27. 28. 31. 1. 2. 3. 6. 7. 8.*

Total No. of Visits *5*