

Rpt. 1.

DISCLOSED

SECTION

No. 778

STEEL STEAMER or MOTORSHIP.

DISCLOSED
Received at London Office

No. 778

No. 46230

Date of completion of report

December 31st 1926

Port of

Glasgow

Survey held at

Glasgow

Date First Survey

4th Decr 1926

Last Survey

22nd December

1926

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

Steel Twin Screw Motor Vessel "KOOLINDA"

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

Complete Superstructure

State Type of Erections

Full Bridge on Superstructure etc.

TONNAGE under Tonnage Deck

3049.40

CLASS x 100 A.1.

State if with freeboard as condition of Class

Yes.

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

Total

3049.40

Gross Tonnage

4371.89

Register Tonnage

2280.75

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

L 330.0

Breadth (greatest moulded)

B 50.0

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

D 27.5

1st Longitudinal Number (L x D)

= 8910.0

2nd Numeral L x (B + D)

= 25410.0

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

7.44

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

12.0

Do. Long Bridge to top of keel

9.3

Draught Moulded

18'-1 1/4"

Built at

Glasgow

Launched

26th August 1926

Builders

Messrs. Harland & Wolff Ltd. Glasgow

Owners

State Shipping Service, Western Australian Government.

Managers

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

Residence

Fremantle W. Australia

Port of Registry

Fremantle

If surveyed while building, afloat, or in dry dock

Building afloat in dry dock.

REGISTERED DIMENSIONS.

Length

330.3

Breadth

50.2

Depth

25.4

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	26 1/2		Bracket Floors, Frame	✓	
" " from 1/2 length to Collision bulkhead	26 1/2		" " Reversed Frame	✓	
" " in peaks	24		" " Vertical Struts	✓	
DE FRAMING.			Centre Girder, depth and thickness amidships	37.48	
Frame Amidships, Angle, E or F	6 1/2 3 .38		" " top Angles	3 3 .45	
" " Extends up to	2 1/2 3 .44		" " bottom Angles	4 4 .50	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	One @ .40	appd .36
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	27.43	
Depth of Framing Girder	6 1/2 8		" " Vertical Angle to Tank side Bracket	6 6 .36	
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	none		" " Vertical Angle to Tank side Bracket forward	M.R. 3 1/2 x 3 1/2 .50	
" " Second 'tween Decks, Angle, E or F	✓		" " Gussets, spacing and scantling	3 3 .38	
" " Third " " " "	✓		" " Gussets, spacing and scantling forward	none	
Framing in Peaks, Angle, E or F	5 1/2 3 .40		Tank Side Brackets, height above base line at toe of Frame and thickness	55"	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4 @ 5 1/2		INNER BOTTOM PLATING.		
State if Frame Joggled	Yes		Breadth and thickness of Middle Line Strake	48 x .45	
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars	As per Appd Plan.		Thickness of remainder in Holds	.39	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	As per Appd Plan.		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bulkheads and Boiler Room?	Yes.	
DOUBLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, E or F	6 1/2 3 .36	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, E or F	7 3 .34	
Middle Line Keelson, on Floors, Angles, E or F			Second Deck, amidships, Angle, E or F	7 1/2 3 .38	
" " Through Plate or Intercoastal Plate			Third Deck, amidships, Angle, E or F	7 1/2 3 .38	
" " Foundation Plate on Floors			Fourth Deck, amidships, Angle, E or F	✓	
" " Flat Plate Keel Angles			Poop Deck, Angle, E or F	✓	
Side Keelsons, No. each side			Bridge Deck, Angle, E or F	9 3 .41, .44 x .51	
" " thickness of Intercoastal Plate			Forecastle Deck, Angle, E or F	10 3 1/2 .40	all frames
" " Angles			Bracket Floors, breadth and thickness at middle line	7 3 .40	all frames
DOUBLE BOTTOM.			Bracket Floors, breadth and thickness at margin plate		
Solid Floors, thickness and spacing	36 every.				
" " Are Frame and Reversed Frame joggled?	Yes				

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.....	1x2		Stringer Plate, breadth and thickness in way of Bridge	72x.36	✓
„ in 'tween Decks, Size and Spacing.....	wide spans		Thickness of Plating abreast Deck openings in way of Wells32	✓
„ „ „ „ „	as per app.		Thickness of Plating abreast Deck openings in way of Bridge30	✓
„ in Holds „ „	.		Thickness of Plating within line of openings...	.32	✓
„ „ „ „ „	.		If Sheathed, material and thickness	✓	✓
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	✓		Stringer Plate, breadth and thickness.....	71x.34	✓
Plating, thickness of	✓		If Plated, state thickness.....	.30	✓
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	✓
Stringer Plate, breadth and thickness in Wells	53x.46		If Plated, state thickness	✓	✓
„ „ „ „ in way of Bridge	53x.36		Poop Deck.		
„ „ „ „ „	53x.46		Stringer Plate, breadth and thickness	✓	✓
„ Angle in Wells	53x.46		Plating, Sheathing, material and thickness ...	✓	✓
Thickness of Plating abreast Deck openings in way of Wells38		Bridge Deck.		
Thickness of Plating abreast Deck openings in way of Bridge32		Stringer Plate, breadth and thickness.....	51x.38	✓
Thickness of Plating within line of openings...	.34		Plating, Sheathing, material and thickness ...	✓	✓
If Sheathed, material and thickness	2 1/2 inch plate		Forecastle Deck.		
Second Deck.			Stringer Plate, breadth and thickness.....	32x.32	✓
Stringer Plate, breadth and thickness in Wells...	72x.36		Plating, Sheathing, material and thickness ...	30, 2 inch	✓

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?			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	47	.60	.60	.60	approx. 56 @ ends.	Double	7/8	3.3	Yuttle	7/8	3 1/8	Lapped.	
„ DBLG. (if any)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BOTTOM PLATING, No. of Strakes	✓	.50	20x.46	18x.46	✓	double	3/4	2.93	Yuttle	3/4	2 5/8	Lapped.	
BILGE PLATING, No. of Strakes	✓	.50	.44	.44	✓	„	„	„	„	„	„	„	
SIDE PLATING, No. of Strakes	✓	.50	.42	.42	✓	„	„	„	„	„	„	„	
UPPER DECK, Sheer-strake in Wells.....	57	.64	.42	.42	✓	„	7/8	3.3	Quadr.	7/8	3 1/2	„	
UPPER DECK, Sheer-strake in Bridge	✓	.50	-	.42	✓	lower double	3/4	2.93	Yuttle	3/4	2 5/8	„	
STRAKE BELOW Sheer-strake in Wells.....	56 1/2	.58	.42	.42	✓	upper single	3/4	„	„	„	„	„	
STRAKE BELOW Sheer-strake in Bridge	✓	.50	-	-	✓	lower double	7/8	3.3	„	7/8	3 1/8	„	
POOP SIDE PLATING	✓	.50	-	-	✓	upper double	7/8	3.3	„	7/8	3 1/8	„	
BRIDGE SIDE PLATING	✓	.49	-	.42	✓	double	3/4	2.93	„	3/4	2 5/8	„	
FORECASTLE SIDE PLATING	✓	-	.38	-	✓	single	3/4	2.93	Yuttle	3/4	2 5/8	Lapped	
	✓	-	-	-	✓	single	3/4	3	Single	3/4	„	„	

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) 5

„ Deck next below 3. (including deep tank approx.)

As per Rule 5.

		Plating Thickness.	STIFFENERS. X			
			VERTICAL.		HORIZONTAL.	
			Scantlings, Spacing.		Scantlings, Spacing.	
MIDSHIP BULKHEAD, Upper tween decks <i>frame 43.F.</i>		.26	4x2½	40	10	28"
"	" Second " ✓	.30	6x3x	32	8A.C	30"
"	" Third " ✓					
"	" Holds ✓	.33	4x6½	3x	32	8A.C 30"
COLLISION	" (in Hold) ✓	.32	4x8	8x3x	40	8A.C 24" Sani Br beam
AFTER PEAK	" " ✓	.30	4x4	10x3½	50	8A.C 24" Tunnel Top

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	Flat plate keel			
STEM	Roller 84x2 1/2	Colville		
STERN FRAME { Propeller Post	Castings in app. The Spring face			
„ { Rudder „	plan			
RUDDER—A x D.....	Forging	Balance Rudder		
Speed of Vessel.....	15 knots.	Dennyson Eng. Co.		
RUDDER mainpiece at head ...	10	✓	approved 9 1/2	
„ „ heel ...	7 1/4			
„ how constructed	Double: Arms Shunk & Keyed on.			
„ double or single plate coupling, vertical or horizontal.....	Single	1.06		
	Horizontal			

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Messrs Stewart & Lloyd.

D. Colville & Sons, Wm Beardmore & Co. Ltd., Fairbank & Sons Steel Co. Bolton & Co. Ltd., Pease & Partners, Cargo Steel Co. Ltd., Cassell & Co. Ltd., Steel Co. of Scotland.

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

EQUIPMENT No. 28103											LETTER W	ANCHORS.			
Number of Certificate.	Anchor.	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.			
59773	1st Bower ...	53	1	0	stallies			44	7	2	0	52½	Taylor & Son	S. Taylor & Son	1887; 2/10/16; 4/2/16
59774	2nd „ ...	52	1	21	„			43	17	0	21	52½	do	do	do
59787	3rd „ ...	45	1	4	„			39	8	0	14	44½	do	do	do 28/10/16; do.
	Collective weight.	150	3	25								149½			
6397	Stream	15	1	14	3	3	14	16	16	2	7	14	Rodgers	S. Taylor & Son	1887; 9/11/16; 1/11/17

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.	
3970	Fathoms.	Ins.	Tons.	qrs.	Cwts.	qrs.	lbs.	Fathoms.	Ins.	Stud	S. Taylor & Son	1887; 2/10/16; 4/2/16		TOWLINE	Fathoms.	Ins.	Tons.	Fathoms.	Ins.
41058	210	3/16	76 1/2	10 1/2	453	0	5	270	2 1/2	"	"	1887; 2/10/16; 4/2/16		"	120	4 1/2	39	120	4 1/2
41059	18	"	"	"	32	0	23			"	"	1887; 2/10/16; 4/2/16		"	40	7	40	7	
41060	15	"	"	"	31	0	16			"	"	1887; 2/10/16; 4/2/16		"					
41061	15	"	"	"	32	0	3			"	"	1887; 2/10/16; 4/2/16		"					
Iron Stream	270	4 1/2	39		581	1	14	90	4 1/2	S.M.S.	S. Taylor & Son	1887; 2/10/16; 4/2/16		"					
Steel Wire	40	4 1/2	39							"	"	1887; 2/10/16; 4/2/16		"					

Steering Gear, Steam *Electric Hydraulic by Harland & Wolff* Steering Gear, Hand *6 1/2" dia. by Westinghouse Engine works Sunderland*

Boats *40' 2 1/2" x 7' 5" x 3", 30' 2 1/2" x 5' 5" x 3"* Steering Chains, Size and Test *none* Windlass *Electric by Clarke Chapman*

Ceiling in Holds, thickness and material *2 1/2" W.P.* Cargo Battens, thickness, material and spacing *2" W.P. x 9" dia. spaced*

Cargo Hatchways.—(Upper Deck) *11' 2" x 26' 2" x 15 1/2"* Thickness of Hatches *2 1/2"*

Size of No. 1 Hatchway (Forward) *15' 5" x 14' 0"* No. 2 *26' 6" x 16' 0"* No. 3 *13' 8" x 13' 0"* No. 4 *17' 2" x 13' 0"* No. 5 No. 6

Number of Shifting Beams and/or Fore and Afters *2 in 11' 2" x 3", 5 in 11' 2", 3 in 11' 4".*

FOR HARLAND & WOLFF, LTD.
John Dickenson
 Builder's Signature Managing Director

GENERAL DECLARATION *The materials & workmanship are good. The vessel has been built in accordance with the approved plans & instructions, the Secretary's letters of various dates and in conformity with the Rules for the class contemplated. The vessel is constructed to carry oil fuel in Nos 3, 4 & 5 S.B. Tanks and in deep Tanks forward of water room. The tanks, bulkheads, deck, timbers and w.t. doors have been tested in accordance with the Rules and the requirements of Sec 35. of the Rules have been complied with where applicable. The freeboard has been verified and the freeboard marks cut in on the vessel's side.*

Rebours £ 10 - 0 - 0
 The amount of Entry Fee £ 8 : 0 : 0
 Special Survey Fee.... £ 293 : 12 : 0
 Travelling Expenses, if any £ : :
 Fees applied for, 29.12.1926
 Received by me, 19/1/27
 I am of opinion the Vessel should be Classed *+ 100 A.1. with freeboard.*
 State whether the Vessel has been built under Special Survey *Yes.*
 Certificate to be sent to *Glasgow* Date of issue *3/2/27*
 Signature *G. Webster*
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 11 JAN 1927*
 Character assigned *100 A.1. with freeboard.*
12.26.
Lloyd's A.C.P.
+ LMC 12.26.

The Surveyors are requested not to write on or below the Committee's Minute.

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.)

Rpt. 4b.

Plans forwarded:—

✓ Midship Section

✓ Fore & Aft Plans

✓ Stem Frame & Base Arms

✓ Fore end framing

✓ Rudder

✓ Pumping Arrangements

✓ Bracket at fore end of Stem Tube as W.T. B.P.

✓ Pillar & Girders

✓ After end Section

✓ Deep Tank

✓ W.T. Bulkheads

✓ Tunnel

✓ Masts

✓ Hatch plan

✓ Main & Aux. Engine Seats

✓ After & midship Boat Decks

✓ Houses on Bridge & Aundships

✓ Viller

✓ Supports to Casing in way of Air receiver

✓ Ventilating Arrangements.

Midship Section as built, and fore & afting reports also enclosed

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

1st Bower 36.3.7; W.A.D.; 59773; 21/10/26.
2nd " 34.3.14; W.A.D.; 59774; 21/10/26
3rd " 29.3.4; W.A.D.; 59787; 28/10/26.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge 219.54 ft., Forecastle 44.21 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 2 Decks (SK) keelson at fore tank sheathed
3rd dk (SK) in forward hold
Official No. ; Signal Letters
Is bottom of Vessel coated with cement Partly, if not give
particulars of composition No 1 & 2 A.B. tank + fine soft portland cement. No 3, 4 & 5 are lubricating oil A.B. tanks - ailes.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft, 71.5 SB = 98 tons O.F. or 106 tons W.B.	61.83	106	Fore peak tank, 16.5 tons F.W.	37.6	170
Double bottom, under Engines and Boilers,			After peak tank, 17 tons F.W.	16.0	120
Double bottom, if under Engines only, 133 tons O.F. + 32 tons L.O.	50.79	179	Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward, 6.258.5 tons O.F. or 281 tons W.B.	24.29	28
Double bottom, forward, 71.2 = 62 tons F.W.; 71.3 = 164 tons O.F.	117.04	242	Other tanks, if fitted, 2 wing tanks each 132 tons Capacity or 145 tons W.B.	24.29	29
Total capacity of double bottom		527	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks.
Total length of A.B. = 229.66 ft.

Order for Special Survey No. 5436

Date 3.12.25

Dates of Surveys held while building

1925 Dec 4. 4.9.10.11.16.22.24.30 (1926) Jan 11. 19.23 Feb 3. 10. 12.15.17.24 Mar 1. 8.10.16.17.22.26 Apr 13.16.26.29.30 May 5. 7.11.18.19.20.24.25.28 June 2. 4. 8.11.14.17.23.28.30 July 2. 6. 8.13.14.15 Aug 2. 4. 6. 9.10.12.16.19.24.25.28.30 Sep 6. 9.10.13.14.17.23.29 Oct 1. 4. 6. 8.13.18 Nov 9.10.12.16.17.18.22.23.26.30 Dec 6. 9.14.15.17.20.21.22

Total No. of Visits 10