

Rpt. 1.

WRECK  
SECTION

No

21018  
STEEL STEAMER OF MOTORSHIP

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.

-5 NOV 1930  
Received at London OfficeWRECK  
SECTION

No

No. 16346.

Date of completion of report November 4<sup>th</sup> 1930.

Port of Aberdeen.

Survey held at Aberdeen.

Date First Survey April 10<sup>th</sup> 1930.Last Survey Nov<sup>r</sup> 12<sup>th</sup> 1930.

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

single screw - "Birchgrove" -

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

Full Scantling.

State Type of Erections R.Q.D. &amp; F.D.

TONNAGE under Tonnage Deck 450.34.

CLASS 100.A.1.

State if with freeboard as condition of Class no.

Built at Aberdeen.

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

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) L 153.0.

Launched September 10<sup>th</sup> 1930 Yard No. 122.

Total 450.34.

Breadth (greatest moulded) B 34.0.

Builders John Lewis &amp; Sons Ltd.

Gross Tonnage 640.48

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 12.5.

Owners R.W. Miller &amp; Co. Ltd.

Register Tonnage 246.98.

1st Longitudinal Number (L x D) = 1912.5.

Managers

(Where necessary to be entered in Reg. Book)

REGISTERED DIMENSIONS.  
FEET.

Length 153.4.

Framing Depth "d," at middle of length. See Sec. 3 (1d) U.D. 8.71.

Residence 19 Bridge St. Sydney. N.S.W.

Breadth 34.1.

Proportions—Depth to Length—Uppermost continuous deck to top of keel 12.24.

Port of Registry Sydney. N.S.W.

Depth 10.75.

Draught Moulded 11.10.

If surveyed while building, afloat, or in dry dock

First Entry.

## 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 throughout	22"		Bracket Floors, Frame	✓	✓
" " from 1/2 length to Collision bulkhead	✓	✓	" " Reversed Frame	✓	✓
" " in peaks	22"		" " Vertical Stems	✓	✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	29" x 34" x 28"	14" in B.S.
Frame Amidships, Angle E or F	5" 3" 31"	B.A.	" " top Angles	3" 3" 31"	14" in B.S.
" " in C.D. Bottom	3" 3" 30"	Double for 1/2 L.	" " bottom Angles	3" 3" 35"	Double for 1/2 L.
" " Extends up to	Uppermost Deck		Side Girders, No. each side and thickness	One 30" 40" B.S.	50" E.S.
" " in way of Boal D. above R.Q.D.	4" 3" 30"	14" apart.	Margin Plate	26" x 30" 40" B.S.	Bottom angles 3" x 3" x 30"
Reversed Frame Amidships Angle	3" 3" 30"	40" in B.S.	" " Vertical Angle to Tank side	3" 3" 30"	single outside
" " Extends up to	As per approved plans		" " Bracket abaft 1/2 length from stem	3" 3" 30"	+ 10" in B.S.
Intermediate frames in way Boal D.	22" 22" 26"		" " Vertical Angle to Tank side	5" 3" 30"	double outside
Depth of Framing Girder	as stated		" " Bracket forward 1/2 length from stem	3" 3" 30"	" inside
Forecastle frames	4" 3" 40"	22" apart.	" " Casings, spacing and scantling	✓	✓
Frames in Uppermost Continuous Tween Decks, Angle E or F	✓	✓	" " Casings, spacing and scantling	✓	✓
" " Second Tween Decks, Angle E or F	✓	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	5" 6" in Hold.	2" 9" in B.S.
" " Third " " " "	✓	✓		✓	✓
Framing in Peaks, Angle E or F	4" 3" 40"		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3" rivets, 5 1/2" diam in Peaks + Bottom plating for 1/2 L. rivets 7" diam.		Breadth and thickness of Middle Line Strake	65" x 50" in Holds.	143" in B.S. 32 E.S.
State if Frame Joggled	Yes.		Thickness of remainder in Holds	50" in Holds.	43" in B.S. 32 E.S.
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Deep frames & per app. Plans		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?	As approved.	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	Per app. Plans & Section 11 of Rules.		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships	6" x 3" x 33" B.A. 6"	4" x 3" x 32" A.
Floors, Depth and thickness at mid line in Holds	✓	✓	" " in Walls, Angle E or F	3 1/2" 3" 30"	
Height of Brackets at side above base line at toe of frame	✓	✓	" " in way of Bridge, Angle E or F	3" x 3" x 30" in way Deep Brackets	
Middle Line Keelson, on Floors, Angles	✓	✓	Spacing	22"	
" " Through Plate or Intercoastal Plate	✓	✓	RAISED QUARTER		
" " Foundation Plate on Floors	✓	✓	Second Deck, amidships Angle E or F	6" 3" 33" B.A. 6" x 3" x 32" A.	
" " Flat Plate Keel Angles	✓	✓	Self beams in way E & B. space + Bunkers	1 1/2" x 3" x 35" A.	
Side Keelson, No. each side	✓	✓	Spacing	22"	
" " thickness of Intercoastal Plate	✓	✓	Through Beam at Casings	7" x 3 1/2" x 3 1/2" x 38" channels double.	
" " Angles	✓	✓	Third Deck, amidships Angle E or F	Can't Beams 4" x 3" x 36" A.	
DOUBLE BOTTOM.			Spacing	✓	✓
Solid Floors, thickness and spacing	30" + 40" in B.S. 22" apart.		W.T. FLAT AFT.		
" " Are Frame and Reversed Frame joggled?	Yes.		Fourth Deck, amidships Angle E or F	5" 3" 38" A.	
Bracket Floors, breadth and thickness at middle line	✓	✓	Spacing	22"	
" " breadth and thickness at margin plate	✓	✓	BOAT		
			Peep Deck, Angle E or F	5" 3" 36" A.	
			Casing Top Beams.	4 1/2" 3" 30" A.	
			Spacing	44"	
			W.T. FLAT FORWARD.		
			Bridge Deck, Angle E or F	6 1/2" 3" 30" B.A. 6" x 3" x 30" A.	
			Spacing	22"	
			Forecastle Deck, Angle E or F	5" 3" 34" 6" 1" x 3" x 33" A.	
			Spacing	22"	



# PILLARS AND DECKS.

PILLARS, No. of Rows	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.
Belts in between Decks, Size and Spacing	2 1/2	as approved.							
For 1st & 2nd below Deck	2 1/2	as approved.							
in Hold accom. aft.	2 1/2	on alternate Beams.							
Centre Line Bulkhead									
Stiffeners and Spacing									
Plating, thickness of									
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells	71	36	6	33	as approved.				
" " " " in way of Bridge									
" Angle in Wells	3 1/2	3 1/2	3 1/2						
" under forecables.	3	3	3						
Thickness of Plating abreast Deck openings in way of Wells									
Thickness of Plating abreast Deck openings in way of Bridge									
Thickness of Plating Forward.	29	33							
If Sheathed, material and thickness									
R. QUARTER Second Deck.									
Stringer Plate, breadth and thickness in Wells	25	36	6	32					
Stringer Plate, breadth and thickness in way of Bridge									
Thickness of Plating abreast Deck openings in way of Wells									
Thickness of Plating abreast Deck openings in way of Bridge									
Thickness of Plating Forward.	29	33							
If Sheathed, material and thickness									
Third Deck W.T. Plating (Forward)									
Stringer Plate, breadth and thickness									
If Plated, state thickness									
Fourth Deck W.T. Plating (Aft.)									
Stringer Plate, breadth and thickness									
If Plated, state thickness									
Boat Deck.									
Stringer Plate, breadth and thickness	42 1/2	26							
angle.	3	3							
Plating, Sheathing, material and thickness	26	as approved.	5	2 1/2	Deck.				
Coring Top.	36								
Bridge Deck.									
Stringer Plate, breadth and thickness									
Plating, Sheathing, material and thickness									
Forecastle Deck.									
Stringer Plate, breadth and thickness	3	3							
angle.									
Plating, Sheathing, material and thickness	30	in centre	26	at sides.					
Sheathing 5	3	2 1/2	P.P.						

## SHELL PLATING.

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 .....	38	4 1/2	40	40		4 1/2 Double	3/4	3 1/2	3 R = 1/2 L. 6 2 R.	3/4	2 5/8	Lapped.
„ <del>DECK</del> (if any)	A. 56	3 1/2	3 1/2	30	3 1/2	4 1/2 Double	3/4	3 1/2	2 R.	3/4	2 5/8	Lapped.
BOTTOM PLATING, No. of Strakes ..... 2 ....	B. „	„	3 1/2	„	„	„	„	„	„	„	„	„
	C. „	„	3 1/2	„	„	„	„	„	„	„	„	„
BILGE PLATING, No. of Strakes ..... 1 ....	D. 49 1/2	„	„	„	„	„	„	„	„	„	„	„
	E. 51	„	„	„	„	„	„	„	„	„	„	„
SIDE PLATING, No. of Strakes 1. FOR. 2. AFT.	F. 48	„	„	„	„	„	„	„	„	„	„	„
UPPER DECK, Sheer-strake in Wells FOR.	G. 44	43	30	✓	57 in way of Break.	4 1/2 Single	„	„	3 R = 1/2 L. 6 2 R.	„	„	„
R. Q.												
UPPER DECK, Sheer-strake in Bridge AFT.	H. 44	38	✓	30		„	„	„	2 R.	„	„	„
STRAKE BELOW Sheer-strake in Wells FOR.	F. 44	40	30	✓		4 1/2 Double	„	„	3 R = 1/2 L. 6 2 R.	„	„	„
STRAKE BELOW Sheer-strake in Bridge AFT.	G. 44	38	✓	30	34	„	„	„	2 R.	„	„	„
BULWARKS.												
POOP SIDE PLATING .....	42		26			✓	✓	✓	1 R.	3/4 + 5/8	1 1/2 + 3/4	„
BOAT D.												
BRIDGE SIDE PLATING ...				26		2 1/4 Single	5/8	2 1/2	1 R.	5/8	2 1/4	„
FORECASTLE SIDE PLATING			26			„	„	„	„	„	„	„

## WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c)

Deck next below

As per Rule and as approved.

Three

Three

## STIFFENERS.

	Plating Thickness.	VERTICAL.				HORIZONTAL.			
		Scantlings.		Spacing.		Scantlings.		Spacing.	
MIDSHIP BULKHEAD, NON. W.T.	29	30	36	6	3	32	A	33	37 1/2
" " Second		32	30	42	5 1/2	3	32	30	36
" " Third									
" " Hold		72	30	36	5 1/2	3	32	24	
COLLISION		70	30	32	5	3	32	24	W.T. Plating.
AFTER PEAK		8	26	4	3	32	A	30	

## FORGINGS and CASTINGS.

	Continuing Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM			6 x 1 1/2	Consell Iron Co.
STERN FRAME	Propeller Post		Forged 5 1/2 x 3 1/2	J.S. Doulev & Sons Ltd.
	Rudder		6 x 3 1/2	
RUDDER—A x D			103	87.
Speed of Vessel			10	Knots
RUDDER mainpiece at head			Forged 5 1/2 x 3 1/2	J.S. Doulev & Sons Ltd.
" " heel			4 1/2	
" " how constructed			Arms shrunk on & keyed to main piece	
" " double or single plate			Single 85	Sheel Co. of Scotland.
" " coupling, vertical			13 1/4 diam x 1 1/2	Due 1 3/8 bolts.
" " horizontal				

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)			
	Scottish Iron & Steel Co.	The Steel Co. of Scotland.	D. Colville & Sons Ltd.	Consell Iron Co. Ltd.
	Carron Steel Iron Co. Ltd.	Norman Lang & Co. Ltd.	Bolchou Vaughan & Co. Ltd.	Lanarkshire Steel Co.
	Has the Steel been tested as required by the Rules? Yes.			



EQUIPMENT No 7766.5.										ANCHORS.	
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE			Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	
45630.	1st Bower	14	2	7	14	2	7	16	3	1	Jellows (C.S.M.)
45629.	2nd "	14	1	26	"	"	"	16	1	1	
45631.	3rd "	12	3	21	"	"	"	14	15	0	"
	Collective weight.	41	3	26							"
92080	Stream	4	1	3	1	0	14	6	15	0	Ordinary

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.	Statutory.	Breaking.	Supplied.	Per Rule.	Length.	Diam.	Length.					Cir.	Length.		Cir.		
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.				Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
94997.	195.	3" 1 11/16	35 7/10	38	141.	0.	25	141 1/2.	195	3" 1 11/16	Stud	Willetts & Sons.	N. 11.9.30. Green.	TOWLINE...	75.	2 3/4	15.2	75.	2 3/4
														HAWSERS & WARPS	90.	2 1/2	10.8.	90.	2 1/2
		Cir.								Cir.				"					
Lower Stream } Steel Wire }	60	3"		18.6					60	3"	G.R.S.W.	She Dura Wire Rope Man <sup>9</sup> Co. Ltd.		"					

Steering Gear, Steam by MacGregor Port Glasgow Eng. Co.  
2 Lifeboats 17'6" x 6'3" x 2'9"  
Boats 1. Dinghy 15'0" x 5'0" x 2'0"  
on Tank side Brackets only.  
Ceiling in Holds, thickness and material 2 1/2" W. Pine, with 7/8" plate sheathing  
Cargo Hatchways. (Upper Deck) Steel plates and angles. Coaming 50" Thickness of Hatches 3" White Pine  
Size of No. 1 Hatchway (Forward) 58'8" x 22'0" PORT 7'4" x 5'6" STAB 7'4" x 5'6" No. 1  
Number of Shifting Beams and/or Fore and Afters Eleven. Plats 18 1/2" x 59" x 36". Angles 4 1/2" x 3" x 16".

Steering Gear, Hand.  
7'8" 9 1/8" Tons. N. 78981. 9.9.30. Windlass 6 1/2" x 8" by Clarke Chapman.  
H. Green.  
BUNKER HATCHES.  
JOHN LEWIS & SONS, Ltd.  
C. Wilson  
SHIPYARD MANAGER

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel ☒ no ☐ (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.

This vessel has been built, in accordance, with the Sec. Rules, the Rules and approved plans, for the intended class 100.A.1.

The materials and workmanship are good.

The Double Bottom, Feed Tank, Peaks, Weather Decks and Bulkheads, have been satisfactorily tested.

The Freeboard markings have been cut in and verified.

The following approved plans, are forwarded, herewith, viz: - Profile and Decks, Midship Section, Bulkheads, Stem Frame and Rudder, Fore end stiffening, Engine Sealing, Stem Cant, Steel Mast (2) Arrangement of Wash Ports, Stiffening at Break of Raised Quarter D. Frame Bracket connections and Pumping Arrangement, together with 2 Reports on Forgings.

The amount of Entry Fee ..... £ 4 : 0 : 0. Fees applied for, Nov. 4<sup>th</sup> 1930  
Special Survey Fee.... £ 64 : 0 : 0. Received by me, 18.12.30  
Freeboard 3 : 6 : 8  
Travelling Expenses, if any £ : : :  
State whether the Vessel has been built under Special Survey Yes.  
Certificate to be sent to Aberdeen. Date of issue 19/12/30.

I am of opinion the Vessel should be Classed 100.A.1.  
Signature J. Richardson  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 11 NOV 1930  
Character assigned + 100A1  
Write Mr Lloyds' arcr, + dmb. 11.30 - CL  
14/11/30

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

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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 Anchor, viz.:—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower	9. 1. 13 cut. a. Bennett. 2924. Antwerp. 19.5.30.
2nd "	9. 2. 5 " M. a. Black 4628. " 28.2.30.
3rd "	8. 1. 22 " a. Bennett. 2318 " 23.10.29.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of <sup>BOAT D<sup>W</sup></sup> ~~POOP~~ 45.83 ft., R.Q.D. 66.5 ft., ~~Bridge~~ ☒ ~~Forecastle~~ 26.5 ft.  
(in feet and tenths). When the Poop is joined to the R.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)

One Deck (steel.)

Official No. <sup>to be obtained in</sup> Agency N. 5. H. : Signal Letters

Is bottom of Vessel coated with cement Yes. ~~if not give~~

particulars of composition in Tanks. Bitumastic Enamel in Hold Bilges and Bunkers.

PARTICULARS OF WATER BALLAST.—

Where Fitted.		Length.		Water Capacity.		Length.		Water Capacity.
		Feet.	Tons.			Feet.	Tons.	
Double bottom, aft,	N <sup>o</sup> 3.	12.83	22.0.	Fore peak tank,		20.51.	45.0.	
Double bottom, under Engines and Boilers,		✓	✓	After peak tank,	F.W.	7.82.	6.0.	
Double bottom, if under Engines only,	N <sup>o</sup> 5.	20.17.	24.0.	Deep tank, aft,		✓	✓	
Double bottom, if under Boilers only,	(DRY) N <sup>o</sup> 4.	16.5.	(22.0.)	Deep tank, forward,	F.W.	3.66.	15.0.	
Double bottom, forward,	N <sup>o</sup> 1. 36.66. 547. N <sup>o</sup> 2. 33.0. 637	69.66	117.0	Other tanks, if fitted,		✓	✓	
Total capacity of double bottom			163.0.	(If necessary, furnish further information by sketch.)		✓	✓	

\* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 1792.

Date 1.3.30.

Dates of Surveys held while building

1930. April 10. 14. 22. 25. May. 2. 9. 15. 21. 27. June. 4. 10. 13. 20. 26.  
July. 3. 11. 14. 16. 28. 30. August. 4. 7. 15. 19. 25. 26. 27. 29. September 1. 3. 9. 10. 12. 17.  
September. 19. 24. October 2. 10. 16. 21. 22. 24. November 1<sup>st</sup>.

Total No. of Visits 43.