

Rpt. 1

WRECK
SECTION

No

STEEL STEAMER MOTORSHIP

WRECK
SECTION

Received at London Office

11 JUN 1947

State of Report has been sent on the Freeboard of the Vessel ☒ YESState of Report is sent on the Machinery of the Vessel ☒ YES

No

36543

Date of completion of report

9th June '47

Port of GLASGOW

No. 71780

Survey held at AROROSSAN

Date First Survey

13th MARCH 1947

Last Survey

13th MAY

1947

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

SINGLE SCREW

"NARVA" (MACHINERY AFT)

ex. "EMPIRE CONFERENCE"

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

FULL SCANTLING

State Type of Erections R.Q. Ok. BOP & FGLE

TONNAGE under Tonnage Deck ...

1467

CLASS

100.A.1

State if with freeboard as condition of Class

No.

Built at GÄVLE

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)

FEET

250.89

Launched

Yard No.

Total

1467

Breadth (greatest moulded)

B

41.0

Builders GÄVLE VARVS & VERKSTÄDS NYA A/B.

Gross Tonnage

1991

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

D

26.92

Owners SCOTTISH NAVIGATION CO LTD

Register Tonnage

1076

1st Longitudinal Number (L x D)

5248

Managers GLEN & CO. LTD

(Where necessary to be entered in Reg. Book)

2nd Numeral L x (B + D)

15535

Residence GLASGOW

REGISTERED DIMENSIONS.

FEET

256.6

41.1

18.3

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

UPPER OK

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

12.07

Do. Long Bridge to top of keel

18.6

Draught Moulded

If surveyed while building, afloat, or in dry dock

WHILE IN O.D. & Afloat

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	24	✓	Bracket Floors, Frame	6 x 3 x .39	✓
" " from 1/2 length amidships to Collision bulkhead	24	✓	" " Reversed Frame	5 x 3 x .31	✓
" " in peaks	24	✓	" " Vertical Struts	5 x 3 x .31	✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	34 1/2 x .41	✓
Frame Amidships, Angle, Angle 30 x 43	9 x 43	82 x 32 x 47.0A	" " top Angles	WELDED TO	
" " Extends up to	UPPER & R.Q. DECKS	✓	" " bottom Angles	SHELL & TANK TOP	✓
Reversed Frame Amidships, Angle	—	✓	Side Girders, No. each side and thickness	ONE - 29	✓
" " Extends up to	—	✓	Margin Plate depth (incl. of flange) and thickness	.37	✓
Depth of Framing Girder	—	✓	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	WELDED TO	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	—	✓	" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	FLOORS & FRAME BRGTS.	✓
" " Second 'tween Decks, Angle, [or]	—	✓	" " Gussets, spacing and scantling abaft 1/2 len. from stem	—	✓
" " Third " " " "	—	✓	" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	—	✓
" " from 1/2 len. for'd. to 15% len. from Stem	7 x 3 1/2 x .49	8 1/2 x 3 1/2 x .39	Tank Side Brackets, height above base line at toe of Frame and thickness	50 x .35	✓
" " in Peaks, Angle	4 1/2 x 3 x .35	4 1/2 x 3 x .31	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3" CHAIN WELDS	9" APART. Cnt. Cr.	Breadth and thickness of Middle Line Strake	.33	✓
State if Frame Joggled	—	✓	PLATED ATHWARTSHIPS.	.33	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules as approved?	YES	✓	Thickness of remainder in Holds	YES	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	YES	✓	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	✓
DOUBLE BOTTOM.			BEAMS. (UPPER & R.Q. OKS)		
Floors, Depth and thickness at mid-line in Holds	—	✓	Uppermost Continuous Deck, amidships	6 x 3 x .31	8A.
Height of Brackets at side above base line at toe of frame	—	✓	" " Wall, Angle, [or]	—	✓
Middle Line Keelson, on Floors, Angles, [or]	—	✓	" " in way of Bridge, Angle, [or]	24	✓
" " Through Plate or Inter-costal Plate	—	✓	" " Spacing	—	✓
" " Foundation Plate on Floors	—	✓	Second Deck, amidships, Angle, [or]	—	✓
" " Flat Plate Keel Angles	—	✓	" " Spacing	—	✓
Side Keelsons, No. each side	—	✓	Third Deck, amidships, Angle, [or]	—	✓
" " thickness of Inter-costal Plate	—	✓	" " Spacing	—	✓
" " Angles	—	✓	Fourth Deck, amidships, Angle, [or]	—	✓
DOUBLE BOTTOM.			" " Spacing	—	✓
Solid Floors, thickness and spacing	31 @ 72	✓	Poop Deck, Angle, [or]	6 1/2 x 3 x .31	5 x 2 1/2 x .31
" " Are Frame and Reversed Frame joggled?	WELDED TO SHELL & TANK TOP	✓	" " Spacing	24	✓
Bracket Floors, breadth and thickness at middle line	26 x .31	✓	Bridge Deck, Angle, [or]	—	✓
" " breadth and thickness at margin plate	26 x .31	✓	" " Spacing	—	✓
			Forecastle Deck, Angle, [or]	6 1/2 x 3 x .31	6 x 3 x .31
			" " Spacing	24	✓

	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	ONE				
" "in'tween Decks, Size and Spacing	-		Stringer Plate, breadth and thickness in way of Bridge.....}		
" " " " " "	-		Thickness of Plating abreast Deck openings in way of Wells }		
" "in Holds ,,, ,,"	72 x 40		Thickness of Plating abreast Deck openings in way of Bridge..... }		
" " " " " "	ONE IN FOR'D & AFT HOS.		Thickness of Plating within line of openings... If Sheathed, material and thickness		
Centre Line Bulkhead. Stiffeners and Spacing	-		If Sheathed, material and thickness		
Plating, thickness of	-		Third Deck. Stringer Plate, breadth and thickness.....		
STRINGERS AND DECKS.			If Plated, state thickness		
Uppermost Continuous Deck. UPPER OK.			Fourth Deck, Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells .94' x .39'			If Plated, state thickness		
" " " " R.Q. Ok. .94' x .39'			Fifth Deck, Stringer Plate, breadth and thickness.....		
" " " " in way of Bridge .94' x .39'			If Plated, state thickness		
" Angle in Wells 5 x 5 x .53'			Sixth Deck, Stringer Plate, breadth and thickness.....	.29	.33
Thickness of Plating abreast Deck openings in way of Wells }	-		Plating, Sheathing, material and thickness29	
Thickness of Plating abreast Deck openings in way of Bridge..... }	-		Seventh Deck, Stringer Plate, breadth and thickness.....	-	
Thickness of Plating within line of openings... .29 x .31'			Plating, Sheathing, material and thickness ...	-	
If Sheathed, material and thickness.....	-		Eighth Deck, Stringer Plate, breadth and thickness.....	.29	
Second Deck. Stringer Plate, breadth and thickness in Wells -			Plating, Sheathing, material and thickness... .29'		

STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			RIVETING.						
	AMIDSHIPS.		FORWARD.	AFT.		No.	No.	BUTTS.		No. of ROWS OF RIVETS.	RIVETS.		STAPPED OR LAPPED		
	Breadth.	Thickness.	Thickness.	Thickness.				SINGLE OR DOUBLE.	RIVETS.		Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.
	Inches.	Inches.	Inches.	Inches.				Inches.	Inches.		Inches.	Inches.		Inches.	
Flat Plate Keel.....	43.5	65	61	61		DOUBLE.	7/8	32		BUTT WELDED.					
„ Dblg. (if any)															
Bottom Plating, No. of Strakes3.....	-	45	49	39			3/4	3		BUTT WELDED.					
Bilge Plating, No. of Strakes1.....		45	71	39			1 7/8	3 1/2							
Side Plating, No. of Strakes1.....		45	71	39											
Upper Deck, Sheer- strake in <u>Wells</u>		45	71	41	see plan										
Upper Deck, Sheer- strake in <u>Bridge</u>		51	-	31			7/8	4							
Strake below Sheer- strake in <u>Wells</u>		45	71	39			1 7/8	4							
Strake below Sheer- strake in <u>Bridge</u>															
Poop Side Plating.....			59 1/2	31			3/4	3							
Bridge Side Plating.....															
Forecastle Side Plating			39 1/2	31		SGLE.	3/4	3							

Total No. of W.T. BULKHEADS in Vessel— 4. 4 BH for record

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

R.O.
" A Deck ~~next below~~ 1.

As per Rule

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		FLAT PLATE.		
STEM		FLAT BAR. & STEEL PLATE.		
STERN FRAME	{ Propeller Post { Rudder	- 86 PLATES & WEBS. FABRICATED - - -		
Speed of Vessel		NOT EXCEEDING 12 KNOTS.		
RUDDER—Type		SEMI. BALANCED.		
" A x D		-		
" Diam. of head		6"		
" Mainpiece at top pintle		7"		
" " heel		7"		
" how constructed		STREAMLINED & WELDED.		
" double or single plate coupling, vertical or horizontal		DOUBLE. HORIZONTAL.		

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'ween decks	—				
" " Second	—			x See table 11.8.47	
" " Third	—			440x	
" " Holds	No 75	25 x 41	8 x 32 x 25 = 35. O.A.	—	610x
COLLISION " (in Hold)	No 114	29 x 37	6 x 3 x 29	O.A.	4 STRINGERS.
AFTER PEAK "	No 7.	29 x 47	6 x 3 x 35	O.A.	620x

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

ANCHORS. 38. 15.

Number of Certificates		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.			Cwts.			Tons. cwts. lbs.			Cwts.								
		qrs.	lbs.	✓	qrs.	lbs.	✓	qrs.	lbs.	✓	qrs.	lbs.	✓						
1	145 M.	1st	Bower	35	2	0	✓	32.26			33	✓	33	✓	STOCKLESS.			BERLIN	2.9.42.
1	396 M.	2nd	"	35	0	12	✓	32.97			33	✓	33	✓	"			"	"
2	29943.	3rd	"	39	9	12	✓	31	10	2	12	✓	28	✓	"			LOW WALKER.	21.1.47.
Collective weight				104	1	26	✓						94.	✓				R.J. YOGEN.	
1	398 M.	Stream		14.8	cwts.	✓	3	0	0	13.97	TONS.		82	✓				BERLIN	2.9.42.

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.	Stain-tons.	Break-tons.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.	Tons.	Length.	Cir.		
24380.	210	1 1/2	56 3/4	88 1/2	817.4 cwt.s.	}	240	1 1/2	STUO. LINK.	/	DUSSELDORF. 24.11.43	TOWLINE	101	3/4	-	90	3/2		
24257.	14 1/2	1 1/2	59 1/2	82 1/2	26. 2. 11		344 1/2	240	1 1/2		"		CARDOIFF	10.4.47. R.J. YOGAN	2@90	2 1/2	-	2@90	2 1/2
20588.	15.	"	"	"	25. 2. 7.		"	"	"		"		LOW WALKER.	30.4.47. S. G. LUTON.	2@90	1 1/2	-	2@90	1 1/2
Stream Steel Wire	7 1/2	1/4					7 1/2	1/4	S.W.R.										

Steering Gear, Type (Power or hand) STEAM. Alternative Means of Steering HAND WHEEL ON BOOD.
Steering Chains (Size and Test) NONE. ✓ Windlass STEAM. Boats 2 @ 24'. 1 @ 16'.
Ceiling in Holds, thickness and material 2 1/2" WOOD ON 1/2" BATTENS. ✓ Cargo Battens, thickness, material and spacing NONE.
Cargo Hatchways.—(Upper Deck) STEEL PLATES & ANGLES. ✓ Thickness of Hatches STEEL.
Size of Hatchways No. 1 (Fwd.) 26' x 24' 1" No. 2 26' x 25' 3" No. 3 26' x 25' 3" No. 4 26' x 25' 3" No. 5 4' x 16' 1" No. 6 —
Number of Shifting Beams } NONE. ✓
and/or Fore and Afters }

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.*

(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).

This vessel was built under special survey to Germanischer Lloyd classification.

The vessel placed in dry dock, shell plating & muder cleaned, laminated & coated

The scantlings have been checked found to comply with or equivalent to those shown

on the plans. The holes, tween decks, coal bunkers, machinery spaces, decks, casings, hatchways, ventilators, closing appliances, chain locker, masts, rigging & equipment

examined. The double bottom tanks & peaks examined internally, & tested as required by the Rules found satisfactory. The pumping arrangements, W.D. door, windlass & steering gear tested found satisfactory.

The amount of Entry Fee.....	£ - - -	} Fees applied for, 10 JUN 1941
1 Special Survey Fee.....	£ 3s - -	
<i>Travelling Expenses, if any</i>	£ 4 10 - -	Received by me, _____ 19__

I am of opinion the Vessel should be Classed 100. A. 1.

State whether the Vessel has been built under Special Survey..... No.

Certificate to be sent to GLASGOW

Committee's Minute

Character assigned 100 A

5.47 Classed 5.47 (Col. 3.)

SS Ard - 547 Linc 5.47 subject
Cargo batteries not fitted

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. FORWARDED HERewith.

MIDSHIP SECTION (2 SHEETS)

PROFILE & DECKS.

TUNNEL.

SHELL EXPANSION.

TANK TOP.

W. T. BULKHEADS.

STERN FRAME.

KIDDER.

NOTE: 14. 3. 31 O.A. INTERMEDIATE FRAMES WELDED TO SHELL FROM
BLGE TO UPPER DR. BETWEEN MAIN FRAMES. IN A.O. HO/O. & IN FORE PEAK.

PARTICULARS OF ELECTRIC WELDING (if employed) SHELL PLATING & DECK PLATING BUTTS. CENTRE GIRDER TO SHELL & TANK TOP. O.B. FLOORS TO SHELL, TANK TOP & MARGIN PLATE. MARGIN PLATE TO SHELL & TANK TOP. BUTTS OF MARGIN PLATE & TANK TOP PLATING. FRAME BRACKETS TO SHELL & MARGIN PLATE. MAIN FRAMES TO SHELL. W.T. BULKHEAD BUTTS, SEAMS & STIFFENERS.

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

CRUISER STERN. MACHINERY AFT. WIRELESS. DIRECTION FINDER.

CARGO BATTENS NOT FITTED. ECHO SOUNDING.

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

1st Bower	22.9 cwt.	31351. M.	2.9.42.	*
2nd "	22.6 "	31295. M.	11.8.42.	*
3rd "	19 cwt. 3 qrs. 16 lbs.	J. H. J.	7698	26.4.46.
STEAM.	11 cwt.	31297. M.	2.9.42.	*

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 72 ft., R.Q.D. 86 ft., Bridge — ft., Forecastle 19 ft.

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

Official No. 180728 Signal Letters G.O.F.P. Extreme Breadth over Belting (Circ. 1611) Over-all Length 266.5' (Circ. 1703)

No. and Material of Decks ONE. STEEL.

Parts of Bottom of Vessel coated with cement or approved composition CEMENT WASH IN O.B. EXCEPT IN DRY TANK. (BELOW BOILERS.) WHERE 1 1/2" CEMENT. CEMENT WASH IN PEAKS.

Particulars of composition (if fitted) and of approval NONE.

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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,			Fore peak tank,		162.5
Double bottom, under Engines and Boilers, No 5 & 6.	40'	61.7	After peak tank,		54.8
Double bottom, if under Engines only,	—		Deep tank, aft,		
Double bottom, if under Boilers only,	—		Deep tank, forward,		
Double bottom, forward, No 1 to 4.	170'	434.0	Other tanks, if fitted,		
Total length (if continuous) and Capacity	210'	495.7	(If necessary furnish further information by sketch.)		

Order for Special Survey No.

Date

Dates of Surveys held while building

MARCH 13. 28. APRIL 2. 21. 24. 25. 29. 30.
MAY 2. 6. 9. 12. 13.



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Total No. of Visits

13.