

Rpt. 1

STEEL STEAMER OR MOTORSHIP.

Received at London Office

5 OCT 1944

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**Glasgow Rpts No. 68850*Date of completion of report *29th Sept 1944*Port of *Belfast and Glasgow*No. *13753*Survey held at *Belfast and Glasgow*Date First Survey *3rd July 1943*Last Survey *20th Sept 1944*On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *EMPIRE SATURN Single Screw Motor Tanker, machinery aft*

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

*Full Scantling*State Type of Erections *Pop. Br. F'de*TONNAGE under Tonnage Deck ... *7231.65*CLASS *+100A1. carrying Petroleum in Bulk* State if with freeboard as condition of Class *No*Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *L 460*Breadth (greatest moulded) *B 59*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 34*1st Longitudinal Number (L x D) *15640*2nd Numeral L x (B + D) *427880*Framing Depth "d," at middle of length. See Sec. 3 (1d) *✓*Proportions—Depth to Length—Uppermost continuous deck to top of keel *13.52*Do. Long Bridge to top of keel *✓*Draught Moulded *27-4 1/4*Built at *Belfast (completed at Glasgow)*Launched *6th May 1944* Yard No. *1242*Builders *Harland & Wolff, Ltd*Owners *Ministry of War Transport*Managers *Davies & Newman*

(Where necessary to be entered in Reg. Book)

Residence

Port of Registry *Belfast*

If surveyed while building, afloat, or in dry dock

Building and 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	<i>31 1/2</i>	✓	Bracket Floors, Frame	✓	
" " from <i>for 2 cargo tanks</i> length amidships to Collision bulkhead	<i>27</i>	✓	" " Reversed Frame	✓	
" " in peaks	<i>24</i>	✓	" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>59 1/4 x 54</i>	✓
Frame Amidships, Angle, <i>E or C</i>	<i>10 3 1/2 7/16</i>	✓	" " top Angles	<i>welded to T.T.</i>	✓
" " Extends up to <i>forward</i>	<i>11 3 1/2 7/16</i>	✓	" " bottom Angles	<i>4 4 9/16</i>	✓
Reversed Frame Amidships, Angle	✓		" " Gussets, spacing and scantling	<i>2 8 60</i>	✓
" " Extends up to	✓		" " Gussets, spacing and scantling	<i>1 0 42</i>	✓
Depth of Framing Girder	<i>10", 11"</i>	✓	Margin Plate depth (excl. of flange) and thickness <i>tank top at right</i>	<i>54</i>	✓
Frames in Uppermost Continuous 'tween Decks, Angle, <i>E or C</i>	✓		" " Vertical Angle to Tank side	<i>6 6 50</i>	✓
" " Second 'tween Decks, Angle, <i>E or C</i>	✓		" " Bracket abaft 1/4 len. from stem	✓	
" " Third <i>for 2 cargo tanks to each B.H.</i>	✓		" " Vertical Angle to Tank side	✓	
" " from 1/2 len. for'd. to 15% len. from Stem	<i>10 3 1/2 44 BA</i>	✓	" " Bracket from forward 1/4 len. from stem to Panting Area	✓	
" " in Peaks, Angle or <i>E</i>	<i>9 3 1/2 7/16</i>	✓	" " Gussets, spacing and scantling	✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>8 3 1/2 44 BA</i>	✓	" " Gussets, spacing and scantling	✓	
State if Frame Joggled	<i>Yes</i>	✓	" " from forward 1/4 len. from stem to Panting Area	✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<i>as app'd</i>	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	<i>46 1/2 3"</i>	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	<i>as app'd</i>	✓	INNER BOTTOM PLATING.		
SINGLE BOTTOM.			Breadth and thickness of Middle Line Strake	<i>62</i>	✓
Floors, Depth and thickness at mid-line in Holds	<i>See</i>		<i>tank top in way of holding down bolts</i>	<i>1 1/4</i>	✓
Height of Brackets at side above base line at toe of frame	<i>See</i>		Thickness of remainder in Holds	<i>54</i>	✓
Middle Line Keelson, on Floors, Angles, <i>E or C</i>	<i>Long framing</i>	✓	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. space and framing in O.P. Bunkers and Boiler Room?	<i>Yes</i>	✓
" " Through Plate or Inter-costal Plate	<i>plow</i>	✓	BEAMS.		
" " Foundation Plate on Floors			Uppermost Continuous Deck, amidships	<i>8 3 1/2 7/16 BA</i>	✓
" " Flat Plate Keel Angles			" " in way of <i>Pop. Br.</i> Angle, <i>E or C</i>	<i>8 3 1/2 7/16</i>	✓
Side Keelsons, No. each side			" " Spacing	<i>every</i>	✓
" " thickness of Inter-costal Plate			" " <i>forward</i>	<i>8 3 1/2 437</i>	✓
" " Angles			Second Deck, amidships, Angle, <i>E or C</i>	<i>9 3 1/2 437</i>	✓
DOUBLE BOTTOM. <i>in motor space</i>			" " Spacing	<i>every</i>	✓
Solid Floors, thickness and spacing	<i>46 @ 31 1/4, 30 3/4</i>	✓	" " <i>deep tank top</i>	<i>8 3 1/2 7/16</i>	✓
" " Are Frame and Reversed Frame joggled?	<i>Yes</i>	✓	Third Deck, amidships, Angle, <i>E or C</i>	<i>8 3 1/2 7/16</i>	✓
Bracket Floors, breadth and thickness at middle line	<i>Horn welded</i>	✓	" " Spacing	<i>every</i>	✓
" " breadth and thickness at margin plate	<i>to tank top</i>	✓	Fourth Deck, amidships, Angle, <i>E or C</i>	✓	
			" " Spacing	✓	
			Pop Deck, Angle, <i>E or C</i>	<i>8 3 1/2 35</i>	✓
			" " Spacing	<i>every</i>	✓
			Bridge Deck, Angle, <i>E or C</i>	<i>8 3 1/2 437</i>	✓
			" " Spacing	<i>every</i>	✓
			Forecastle Deck, Angle, <i>E or C</i>	<i>10 3 1/2 7/16</i>	✓
			" " Spacing	<i>9 3 1/2 7/16</i>	✓

MADE IN ENGLAND.)

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This image shows a blank, aged, cream-colored page, likely an endpaper or flyleaf of a book. The paper has a slightly textured appearance with some minor discoloration and a vertical crease down the center. There is a small, dark, irregular mark near the bottom center of the page.

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FORGINGS AND CASTINGS.

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Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) open hearth. S.M. Nor
Balwell's Pat. Smith & W. Bean

Yes ✓

Lloyd's Register
Foundation

See letter 1.11.44

EQUIPMENT No. 44706												LETTER C	ANCHORS.		
Number of Certificate.	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.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.				
2448	1st Bower	73	3	7				55	15	0	0	73 1/2	Shankless Hall's Type	Hingley Ben	Netterton 19/1/44 Reef
2449	2nd "	72	3	14				55	5	0	0	43	80 80	80	80 19/1/44 Reef
	3rd "											43			
	Collective weight											219 1/2			
2468	Stream	22	0	14	5	2	17	22	9	1	14	22	Rodger's Forge W.I.	Hingley Ben	Netterton 31/1/44 Reef

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.		
	Fathoms.	Diam.	Statio- tory.	Break- ing.	Supplied.	Per Rule.		Fathoms.	Diam.					Fathoms.	Ins.		Fathoms.	Ins.	
3624	120	2 7/16	14650	14950	357-0-7	8907		300	2 7/16	Steel	Hingley Ben	Netterton 31/1/44 Reef	TOWLINE	130	5 1/4	7750	130	5 1/4	
3623	120	2 7/16	14650	14950	357-1-7				2 7/16	Steel	Hingley Ben	80 31/1/44 Reef	HAWSERS & WARPS	40 off at			40 off		
	240				714-1-14									100	2 3/4	1550	100	2 3/4	
Iron Stream Chain or Steel Wire	120	5			5250			120	5	6x12		Makers' Test							

Steering Gear, Type (Power or hand) Hautee's Steam Hydraulic Alternative Means of Steering blocks & tackle to winch

Steering Chains (Size and Test) telemotor control Windlass steam efficient Boats 4

Ceiling in Holds, thickness and material none Cargo Battens, thickness, material and spacing none

Cargo Hatchways.—(Upper Deck) steel O.T. hatches Thickness of Hatches left dia fabricated

Size of Hatchways No. 1 (Fwd) 8' x 8' No. 2 27 O.T. hatches to cargo tanks No. 3 No. 4 No. 5 No. 6

Number of Shifting Beams and/or Fore and Afters none

Builder's Signature P. Marshall **FOR HARLAND AND WOLFF, LIMITED.**

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 motor ship

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo oil tanker 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).

Oil fuel is carried in bunkers situated at the fore side of the motor space; in deep tank forward of forward cofferdam and in the double bottom under engines. Oil cargo is carried in 27 compartments between forward and after cofferdams, separated into three groups by two pump rooms.

This vessel has been built in conformity with the Society's Rules and Regulations and the Secretary's letter. The scantlings and arrangements are in accordance with or equivalent to those shown on the approved plans. The material and workmanship are good. All cargo tanks, oil fuel bunkers, deep tank forward, fore and after peak tanks, fresh water tanks double bottom compartments in machinery space and cofferdams have been tested to Rule requirements and found satisfactory. Steering gear and windlass have been tested under working conditions and found satisfactory. Weather decks and W.T. bulkheads have been satisfactory tested. Bilge pumping arrangements tried and found in order. Freshboard vented keel in

amount of Entry Fee £11 : 0 : 0 Fees applied for, 3 OCT 1944

BELFAST ACCOUNT.

Special Survey Fee £608 : 8 : 0

SPECIFICATION (G.S.A.C.) 152-2-0

FREEBOARD

Travelling Expenses £19 : 0 : 0

Received by me, 19

We are I am of opinion the Vessel should be Classed +100 A-1.

Carrying Petroleum in Bulk. Long Hamm at bottom and deck.

Butts of deck electrically welded.

Signature Wm. Balfour & J. J. Pyle

Surveyor to Lloyd's Register of Shipping.

State whether the Vessel has been built under Special Survey Yes

Certificate to be sent to Glasgow Date of issue 26/10/44

Committee's Minute GLASGOW - 3 OCT 1944

Character assigned +100 A-1 G. 414

Carrying Petroleum in Bulk.

Longitudinal framing at bottom & at deck.

Butts of deck electrically welded.

Note: Exempt Lloyd's Acc.

+L.M.C. G. 414 subject to

2 A.B. 150 44.

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

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.)

This vessel is a sister vessel with some modified arrangements to the Empire Industry same Builder N1159 etc and to the S/S NARICA (N1173); but a complete set of plans were approved for this vessel only.

The following certificates are forwarded
Fabricated stem frame, tiller, Rudder stock 3 certs
all tight hatches, derricks, 2 certs.

THE FOLLOWING CARRIED OUT AT GLASGOW:—

boosing top, engine room skylight etc mended up.

air & sounding pipes completed

A number of items mended in E. Room & on deck.

After Pump for entrance, top of mast, altered top of deck & boosing top have tested & found satisfactory

The above steering gear & bilge pumping tried & found satisfactory, bedhead reinforced, marks cut in & certificate issued. Anchor & cables also steering gear tried under working conditions & found satisfactory.

Equipment:— Has Emergency requirements complied with.

Specification:— Requirements of specification carried out.

PARTICULARS OF ELECTRIC WELDING (if employed)

upper deck stringer welded to chemstrake, beds upper deck welded, crown of deep tank welded seams & butto, side stringers welded to shell throughout, horizontal girders welded to bulkheads, girders & brackets part welded, longitudinal bulkheads and transverse bulkheads in centre and transverse in centre welded to shell. Double bottom under main engines is an all welded structure except attachments to shell. Large keel, Bulk plates mended to steel flat, flat welded to shell, angle butts and corner welded for all tightness. stem frame and rudder (see page 2)

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

oil engine, machinery aft, cruiser stem D.F. E.S.D. by J. B. J. J.

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

1st Bower 106 + 1000 48e 39m 8lbs 23.9 (Sunk) No 5101. 9.7.43
2nd „ 40 48-3-10 40 5179 17.8.43
3rd „

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 93 ft., R.Q.D. ft., Bridge 46 ft., Forecastle 51

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

Official No. 168535 Signal Letters Extreme Breadth over Belting 483 No. (Circ. 1611) (Circ. 1703)

No. and Material of Decks one deck steel and second deck steel clear of oil cargo tanks

Parts of Bottom of Vessel coated with cement or approved composition none

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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,			Fore peak tank,	23.29	149
Double bottom, under Engines and Boilers, Aft	56.70	153	After peak tank,	16.0	88
Cofferdam			Deep tank, aft,		
Double bottom, if under Engines only,	2.56		Deep tank, forward,	24.75	296
Double bottom, if under Boilers only,			Other tanks, if fitted,		
Double bottom, forward,			(If necessary furnish further information by sketch.)		
Total length (if continuous) and Capacity.	59.26	153			

Order for Special Survey No. 926

Date 18/3/43

Dates of Surveys held while building

1942
July 3.6.22.26.29 Aug 11.12.19.20.24.26.27.30 Sept 1.3.6.8.9.20.21.22.24.27.29.30
Oct 1.4.5.9.11.14.15.18.19.21.22.25.26.28 Nov. 1.2.3.5.6.8.9.11.12.15.18.19.22.23.24.25.27
Dec 1.2.3.6.7.8.9.10.13.15.16.17.18.19.20.21.25.27.28.31 Feb. 1.2.3.4.7.9.10.14.15.16.17.18.19.20
24.28 Mar. 1.2.3.6.7.8.9.10.13.14.16.21.22.24.27.28.29.30.31 Apr. 1.3.4.6.14.17.20.22.23.24.25.26.27.28.29.30
27. May 1.3.4.5.6.8.9.19.19.20.21 Jun 28.30 July 6.11.14.21 Aug 9.16.17 Sep 12.13.15.19.20

Total No. of Visits

1242

See letter 1.11.44

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Plans
ted.

NOTE.—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, &c., on the first page.

0119 3/3

character assigned +100 ~~A~~ G. 44