

## STEEL STEAMER MOTORSHIP.

10 OCT 1942

Received at London Office

WRECK SECTION.

331.

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  
of completion of report Belfast Port of Belfast No. 13343

Key held at Belfast Date First Survey 18 July 1940 Last Survey 29 Sept. 19 42

Name (State if Machinery is Lift and if Single, Twin or Triple Screw) EMPIRE SPENSER Single Screw, Yanker, Machinery aft

Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full Scantling State Type of Erections Pop. Br. 4'6"

Age under 7229.82 CLASS +100A1. Carrying State if with freeboard No Built at Belfast

Age Deck ... 7229.82 ft. in Bulk Long. from bottom deck Length from fore part of stem to after part of stern 460 Launched 17 Feb 1942 Yard No. 1079

of space or spaces 7229.82 Breadth (greatest moulded) 59 Builders Harland & Wolff Ltd

between Tonnage Dk. 8194.30 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) 34 Owners Ministry of War Transport

Upper Dk. 4776.74 1st Longitudinal Number (L x D) 15640 Managers Anglo Saxon Petroleum Co. Ltd

Tonnage 4776.74 2nd Numeral L x (B + D) 42780 (Where necessary to be entered in Reg. Book)

REGISTERED DIMENSIONS. FEET 465.6 Framing Depth "d" at middle of length. See Sec. 3 (1d) 13.52 Residence Belfast

59.5 Proportions—Depth to Length—Uppermost continuous deck to top of keel 13.52 Port of Registry Belfast

33.85 Do. Long Bridge to top of keel 27.4 1/4 If surveyed while building, afloat, or in dry dock building afloat & in dry dock.

## 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	3 1/2	✓	Bracket Floors, Frame	✓	
forward of cargo tanks from 1/2 length amidships to Collision bulkhead	27	✓	Reversed Frame	✓	
in peaks	24	✓	Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	60" x 57-46	✓
Frame Amidships, Angle, E or C	10 3 1/2 7/16	✓	top Angles	4 4 9/16	✓
for tanks	11 3 1/2 7/16	✓	bottom Angles	4 4 9/16	✓
Extends up to	upper deck	✓	Side Girders, No. each side and thickness	2 x 60 1 x 42	✓
Reversed Frame Amidships, Angle	✓		Margin Plate depth (excl. of flange) and thickness	54	✓
Extends up to	✓		Vertical Angle to Tank side	6 6 50	✓
Depth of Framing Girder	10	✓	Bracket abaft 1/2 len. from stem	✓	
Frames in Uppermost Continuous 'tween Decks, Angle, E or C	✓		Vertical Angle to Tank side	✓	
Second 'tween Decks, Angle, E or C	✓		Bracket from forward 1/2 len. from stem to Panting Area	✓	
Third	✓		Gussets, spacing and scantling abaft 1/2 len. from stem	✓	
forward of cargo tanks to coll. BH to 15% len. from Stem	11 3 1/2 4 1/4	✓	Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	✓	
in Peaks, Angle or C	8 3 1/2 7/16	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	46 fl. 3"	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 x 4 7/8	✓	INNER BOTTOM PLATING.		
State if Frame Joggled	Yes	✓	Breadth and thickness of Middle Line Strake	1 1/8"	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	as app'd	✓	Thickness of remainder in Holds	52	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	as app'd	✓	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in oilful Bunkers and Boiler Room?	as app'd	✓
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	See long framing plan	✓	Uppermost Continuous Deck, amidships in way of poop	8 3 1/2 7/16	✓
Height of Brackets at side above base line at toe of frame	See long framing plan	✓	Wells, Angle, E or C	8 3 1/2 7/16	✓
Middle Line Keelson, on Floors, Angles, E or C	See long framing plan	✓	in way of Bridge, Angle, E or C	every	✓
Through Plate or Inter-costal Plate	See long framing plan	✓	Spacing	every	✓
Foundation Plate on Floors	See long framing plan	✓	Second Deck, amidships, Angle, E or C	8 3 1/2 437	✓
Flat Plate Keel Angles	See long framing plan	✓	Spacing	9 3 1/2 437	✓
Side Keelsons, No. each side	See long framing plan	✓	Third Deck, amidships, Angle, E or C	8 3 1/2 7/16	✓
thickness of Inter-costal Plate	See long framing plan	✓	Spacing	every	✓
Angles	See long framing plan	✓	Fourth Deck, amidships, Angle, E or C	8 3 1/2 35	✓
DOUBLE BOTTOM. in motor space			Spacing	every	✓
Solid Floors, thickness and spacing	46 x 3 1/4 30 3/4	✓	Poop Deck, Angle, E or C	8 3 1/2 35	✓
Are Frame and Reversed Frame joggled?	Yes	✓	Spacing	every	✓
Bracket Floors, breadth and thickness at middle line	✓		Bridge Deck, Angle, E or C	8 3 1/2 437	✓
breadth and thickness at margin plate	✓		Spacing	every	✓
			Forecastle Deck, Angle, E or C	10 3 1/2 7/16	✓
			Spacing	9 3 1/2 7/16	✓
				every	✓



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 .....		Two		Stringer Plate, <del>breadth and thickness in way</del> of Bridge <i>forward</i> .....		36	✓
" in 'tween Decks, Size and Spacing .....		Long 8 1/2"	✓	Thickness of Plating abreast Deck openings in way of Wells <i>aft</i> .....		36	✓
" " " " " " .....				Thickness of Plating <del>abreast Deck openings</del> in way of Bridge <i>forward</i> .....		34	✓
" in Holds " " " " .....				Thickness of Plating within line of openings...		✓	
" " " " " " .....				If Sheathed, material and thickness.....		✓	
Centre Line Bulkhead. 11 1/4 PIS				Third Deck. <i>deep tank top</i>			
Stiffeners and Spacing <i>RA</i>		10 3 1/2 7/16	✓	Stringer Plate, breadth and thickness.....		42	✓
2 hor girders 30" x 42" x 26" x 40"		6 5 1/2	✓	If Plated, state thickness .....		38	✓
Plating, thickness of .....		42 Vert	✓	Fourth Deck.			
Stringers and Decks.				Stringer Plate, breadth and thickness.....		✓	
Uppermost Continuous Deck.				If Plated, state thickness.....			
Stringer Plate, breadth and thickness in Wells		97 x 87, 80	✓	Poop Deck.			
" " " " " in way of Bridge		97 x 87	✓	Stringer Plate, breadth and thickness.....		34	✓
" Angle in Wells .....		6 6 5/8	✓	Plating, Sheathing, material and thickness ...		26	<i>not sheathed</i> ✓
<i>ce. continuous strakes</i> ✓				Bridge Deck.			
Thickness of Plating abreast Deck openings in way of Wells .....		76	✓	Stringer Plate, <del>breadth and</del> thickness.....		43	✓
Thickness of Plating abreast Deck openings in way of Bridge.....		✓		Plating, <del>Sheathing, material and</del> thickness ...		34	✓
<i>ce. in way of O.T. hatches</i> ✓				Forecastle Deck.			
Thickness of Plating within line of openings...		58	✓	Stringer Plate, <del>breadth and</del> thickness.....		37	✓
If Sheathed, material and thickness.....		10	✓	Plating, <del>Sheathing material and</del> thickness...		36	✓
Second Deck. <i>aft</i>							
Stringer Plate, <del>breadth and</del> thickness in Wells		40	✓				

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	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.....	57	96	78	78		double	1	4	five	1 1/8	4 1/2	lapped	
„ Dblg. (if any)													
Bottom Plating, No. of Strakes ..... 4.....		67, 64	74, 50	50, 55		double	7/8	3 1/2	four	7/8	3 1/2	lapped	
Bilge Plating, No. of Strakes ..... one.....		64	50	50		double	7/8	3 1/2	four	7/8	3 1/2	lapped	
Side Plating, No. of Strakes ..... 3.....		64	50	50		double	7/8	3 1/2	four	7/8	3 1/2	lapped	
Upper Deck, Sheer- strake in Wells.....	67	99	50	50		-	-	-	five	1 1/8	5	lapped	
Upper Deck, Sheer- strake in Bridge ...	67	99	50	50		-	-	-	five	1 1/8	5	lapped	
Strake below Sheer- strake in Wells.....	84	76	50	50		double	1	4	four	1	4	lapped	
Strake below Sheer- strake in Bridge ...	84	76	50	50		double	1	4	four	1	4	lapped	
Poop Side Plating.....				40		one strake			two	3/4	2 7/8	lapped	
Bridge Side Plating.....		43				one strake			two	3/4	2 7/8	lapped	
Forecastle Side Plating			43			single	3/4	3	one	3/4	2 7/8	lapped	

## WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c)..... 17 ✓

„ Deck next below..... ✓

As per Rule *ordinary cargo*..... 7 ✓

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	<i>flat</i>	<i>Keel</i>		
STEM	<i>rolled</i>	<i>10 1/4</i>	<i>2 3/4</i>	
STERN FRAME	Propeller Post	<i>Cast</i>	<i>as</i>	
	Rudder	<i>Steel</i>	<i>app'd</i>	<i>Beardmore</i>
Speed of Vessel		<i>12 knots</i>		
RUDDER—Type		<i>Simplex type</i>	<i>Beardmore</i>	
" A x D.		<i>rudder double</i>		
" Diam. of head		<i>plate built</i>		
" Mainpiece at top pintle		<i>cast steel frame</i>		
" " heel		<i>forged stock</i>		
" how constructed		<i>semi balanced</i>		
" double or single plate		<i>as app'd</i>	<i>den</i>	
" coupling, vertical or horizontal		<i>8 plates</i>	<i>11"</i>	

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP	<i>center tank</i> BULKH'D, Upper 'tween decks	51 <i>ceaming</i>	10x3½x7/16 Ba	33	upper 32x40 9x3½x437 Ba	} 10' =
"	Second "	41 <i>vertical</i>			lower 33x40 12x3½x45 Ba	
"	Third <i>Wing tank</i> "	50 <i>ceaming</i>	10x3½x7/16 Ba	30	upper 32x40 3½x3½x437	
"	Holds	40 <i>vertical</i>			lower 32x40 3½x3½x437	
COLLISION	(in Hold)	53-34	9x3½x7/16 Ba	34	deck 2 Semibone brgs	
AFTER PEAK		50-30	9x3½x7/16 Ba	34	border flat	

# STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)..... *open hearth. S.M.*  
*Bolville's, Lanarkshire Steel Works, S. G. Scotland.*

Has the Steel been tested as required by the Rules?



Empire Sponser No 1079

## PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.		AMIDSHIPS.			ENDS.			Any Departure from Approved Plans to be Noted.	RIVETING.				
		In Ship.			In Ship.				Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads.		Rivets in Brackets to Bulkheads.
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Diam.	Speng.	Inches.		Number.	Diameter.
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Inches.		Number.	Diameter.
Framing of L, L or C .....													
Frames in Bridge 'tween Decks ...													
Frames from <sup>Keel</sup> Uppermost Continuous Deck Int. Centre Girder No. 1													
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												
	11												
	12												
	13												
	14												
	15												
	16												
Spacing of Longitudinal Frames													
Amidships 1-4													
At Ends 6-9													
Double Bottoms L, L or C													
Tank Top Longitudinals													
Bottom													
Spacing of Longitudinals													
Amidships													
At Ends...													
Transverses.													
Side (in 'tween Decks)													
Depth and Thickness													
Face Angles													
Lugs to Shell*													
Side (in Hold)													
Depth and Thickness													
Face Angles													
Lugs to Shell*													
Bottom													
Depth and Thickness													
Face Angles													
Lugs to Shell*													
Back Bars													
Brackets													
Spacing of Transverse Frames													
* State if joggled or liners.													
Longitudinal Beams of L, L or C													
Bridge Deck													
Upper													
Second													
Third													

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.



EQUIPMENT No.										LETTER	C-1	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.				
26609	1st Bower	74	1	0	stockless			56	0	0	0	1/3.1.0	Byer's Stockless	per W.R. Byer's	Row Walker 30-1-41. Green
26650	2nd "	74	0	0	"			55	15	0	0	1/3.1.0	"	per "	" 1/3/41 Hobbs
	3rd "											1/3.0.0			
	Collective weight											219.2.0			
53725	Stream	22	3	4	5	3	0	22	18	3	0	22	Ridgen Forged W.T.	not stated	Bradley H. 30-11-40 Paul

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.	Statu-tory.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.	Length.					Ins.	Length.		Ins.		
	Fathoms	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms	Ins.				Fathoms	Ins.	Tons.	Fathoms	Ins.	
112698	240 1/2	2 7/8	106 3/4	149 3/4	715	2	20	✓	300	2 7/8	stad	not stated	Netherton 4/10/40 Ref.	TOWLINE	130	5 1/4	77 1/2	130	5 1/4
18071	30 1/2	2 7/8	106 3/4		90	3	0	Retest.			stad	" "	Lawmaker 15/8/41 Sen	HAWSERS & WARPS }	20/100	2 3/4	15 3/4	20/100	2 3/4
116786	shackles for 2 7/8	stad	106 3/4	149 3/4	2	0	14					" "	Netherton 10/2/42 Ref.		"	20/100	2 3/4	15 3/4	20/100
Iron Stream Chain or Steel Wire	120	5	✓	52 3/4	✓				120	5	6x12		Makers test	"					
	Two lengths from Cert 112698 damaged, repaired and retested.																		

Steering Gear, Type (Power or hand) Elastic steam hydraulic Alternative Means of Steering Blocks & tackle to winch

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

Ceiling in Holds, thickness and material none Cargo Battens, thickness, material and spacing steel w/ fore hold

Cargo Hatchways. (Upper Deck) Steel O.T. hatchways 40 Thickness of Hatches 5/4 steel O.T. covers

Size of Hatchways No. 1 (Fwd.) 8'x8' No. 2 27 hatchways to cargo tanks 4'-6"x3'-6" No. 3 No. 4 No. 5 No. 6

Number of Shifting Beams } none

For Fore and Afters }

Builder's Signature

For HARLAND & WOLFE, LIMITED.  
*W. Marshall*  
 Secretary

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 fore side of motor space, in deep tank forward of forward cofferdam and in 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 accordance with the approved plans, the Secretary's Letter and the Rules of the Society. 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 motor space and cofferdams have been tested to Rule requirements and found satisfactory. Steering gear and windlass tested under working conditions and found satisfactory. Weather decks, W.T. bulk heads, also side lights are been satisfactorily hose tested. Bilge pumping arrangements tried and found in order. Freeboard verified and cut in.

Amount of Entry Fee..... £11 : 0 : 0

Special Survey Fee..... £607 : 5 : 6

Travelling Expenses, if any ..... £19 : 0 : 0

Fees applied for, 8.10.19.42

Received by me, 19.

(Special notations, where part of class, to be stated.)

I am of opinion the Vessel should be Classed +100A-1 at Carrying Petroleum in Bulk. Long. framing at bottom & deck.

Signature Wm. Balfour  
 Surveyor to Lloyd's Register of Shipping.

State whether the Vessel has been built under Special Survey Yes

Certificate to be sent to Belfast. Date of issue 13/11/42

Committee's Minute

Character assigned

TUE 20 OCT 1942

+100A-1

Carrying Petroleum in Bulk

Lloyd's A 80 as + LMC 942 Oil Eng

2DB - 150 lb

silencing in

can driven



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 ship to the same Builders Empire Chapman (N7080); Empire Fletcher N7086 and with modifications to Derwentdale N7052; Empire Deadwood N7053; Dunsdale N7078.

The following forging and casting reports are enclosed Stern frame; Back post, Rudder & Stock. also 7 cert for mast & derricks

PARTICULARS OF ELECTRIC WELDING (if employed) welding employed for angle lulls and corners for oil tightness and for non structural items.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book oil engine, machinery aft. cruiser stern D.F., E.S.D.

Particulars of Drop Test of Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.  
1st Bower 48.0.14 J.D. (Bristol) N° 3255. 24.9.40  
2nd 49.0.7 J.T. (Newcastle) N° 3498 19.10.40  
3rd

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 93 ft., R.Q.D. ft., Bridge 46 ft., Forecastle 51 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.  
Official No. 168516 Signal Letters Extreme Breadth over Belting no belting Over-all Length 483 (Circ. 1611) (Circ. 1703)  
No. and Material of Decks 1 dk steel 2nd dk steel clear cargo tanks  
Parts of Bottom of Vessel coated with cement or approved composition none  
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, under engine	69.5	156	Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,			Deep tank, aft,	24.7	27
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
Total length (if continuous) and Capacity			(If necessary furnish further information by sketch.)		

Order for Special Survey No. 893

Date 26.2.40

Dates of Surveys held while building

July 18.25.31 Aug 12.28 Sept 12.20 Oct 3.4.9.29 Nov 5.12.14.18.20.21.25.27.29  
11.13.17.18.19.23.24.27.30 Jan 1.10.15.22 Feb 7.11.18.19.24.26 Mar 1.3.19.24.27.28  
15.21.25.28.30 May 15.19.23.27.30 June 2.11.12.17.25.26.30 July 8.11.17.18.21.22.24  
Aug 4.6.8.12.14.15.18.19.20.26 Sept 3.18.19.29 Oct 2.6.7.13.15.20.27.31 Nov 5.7.11.14.21  
Dec 1.3.4.10.12.15.16.17.19.23.27 1942 Jan 1.2.5.7.8.9.10.12.15.16.17.20.21.22.23.26.27  
Feb 2.3.4.6.9.10.11.12.13.16.17 Mar 24 May 8 June 2.11.19.20 July 7.14.24 Aug 6.  
24.31 Sept. 3.8.9.10.16.21.25.26.28.29

Lloyd's Register Foundation