

TANKER

WRECK
SECTION
11 JUN 1946
Received at London Office
189559

State if Report is sent on the Machinery of the Vessel *from Newcastle Office*

Survey held at Sunderland Date First Survey 2nd Nov. 1944 Last Survey 31st May. 1946

State Type (Full Scantling Complete Superstructure) *Full Scantling* State Type of Erections *Ports, Bridges & Etc.*

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) } L 465.0

Breadth (greatest moulded) } B 64.0

Launched 22nd October 1945 Yard No. 764

Builder Signet Marine & Ship Co Ltd

Total Depth, at middle of length from top of keel to top of lower jaw at side of mouth 35.5

Gross Tonnage 8187.28 deck. See Sec. 3 (1c) Owners The Admiralty

Register Tonnage 4562.18 1st Longitudinal Number (L x D) 16100 ✓
Managers Athol Line Ltd.

REGISTERED DIMENSIONS. Framing Depth "d," at middle of length. See Residence

FEET

Length **473.00** { **13.1** } Port of Registry **London**

breadth 64.15 Do. Long Bridge to } ✓ If surveyed while building, afloat, ^{AND} in dry dock

35.60 Draught Moulded 28' 4 3/8" 1/16

FRAMES, DOUBLE BOTTOM AND BEAMS.

WRECK
SECTION
No 871e

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	✓		Stringer Plate, breadth and thickness in way of Bridge	✓	
" in 'tween Decks, Size and Spacing	✓		Thickness of Plating abreast Deck openings in way of Wells	✓	
" " " " " "	✓		Thickness of Plating abreast Deck openings in way of Bridge.....	✓	
" in Holds " " " "	✓		Thickness of Plating within line of openings...	✓	
" " " " " "			If Sheathed, material and thickness.....	✓	
2 LONGIT^s Bulkheads. ✓	7 3 .33 ✓		Third Deck.		
Stiffeners and Spacing L @ 30" sp. ✓	10 7 1/2 1/2 ✓		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of38, .40, .44, & .52 ✓		If Plated, state thickness	✓	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Way ✓	85 x .82 ✓		If Plated, state thickness.....	✓	
" " <u>THICK. AT BR. ENDS & POOP FRONT</u> ✓	.98 ✓		Fifth Deck.		
" " <u>in way of Bridge</u> ✓			Stringer Plate, breadth and thickness.....	✓	
" Angle in Wall ✓	6 6 .86 ✓		If Plated, state thickness.....	✓	
Thickness of Plating <u>CLEAR OF</u> abreast Deck openings } <u>in way of Well</u>74 ✓		Poop Deck.		
Thickness of Plating abreast Deck openings } in way of Bridge.....	✓		Stringer Plate, breadth and thickness.....	.38 ✓ (.48 AT POOP FRONT) ✓	
Thickness of Plating <u>IN WAY</u> within line of openings... ✓	.64 ✓		Plating, Sheathing, material and thickness30, .31 & .26 ✓	
If Sheathed, material and thickness.....	✓		Bridge Deck.		
Second Deck.			Stringer Plate, breadth and thickness.....	.64 x .40 ✓	
Stringer Plate, breadth and thickness in Wells ✓	✓		Plating, Sheathing, material and thickness32 & .34 ✓	
			Forecastle Deck.		
			Stringer Plate, breadth and thickness.....	.38 ✓	
			Plating, Sheathing, material and thickness...	.38 ✓	

SHELL PLATING.

SCANTLINGS.						RIVETING. & WELDING							
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	.98	.82	.82	APPD 53 x 1.00 - .79	Double	1 1/8	4 1/2					
„ Dblig. (if any)	✓	✓	✓	✓									
Bottom Plating, No. of Strakes (FOUR).....	A, B, & C D.	.68 .70	.77	.51	.75 IN WAY OF STERN FRAME	Double	7/8	3 1/2					
Bilge Plating, No. of Strakes (ONE).....	E. F	.71 .65	✓	.48		Double	7/8	3 1/2					
Side Plating, No. of Strakes (TWO).....	G	.62	.48	.48		Double	7/8	3 1/2					
Upper Deck, Sheer- strake in Well.....	75	.94	.48	.50		Double	1	4					
Upper Deck, Sheer- strake at Bridge END & POOP FRONT		1.06	✓										
Strake below Sheer- strake in Well.....	96	.68	.48	.50		Double	7/8	3 1/2					
Strake below Sheer- strake in Bridge ...	✓	✓	✓	✓									
Poop Side Plating.....	✓	✓	✓	.40	.50 AT POOP FRONT & .36 AT STERN.	Single	7/8	3/8					
Bridge Side Plating.....	✓	.44	✓										
Forecastle Side Plating	✓	✓	.44	✓		Single	7/8	3/8					

Butts of Keel & Shell Plating Welded
Knees at mid-depth of Poop side plating welded.

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c).....14 ✓

„ Deck next below.....✓

As per Rule.....7

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		Flat plate ✓		
UPPER PORTION -	M.S. FASHION PLATE			
STEM { LOWER -	ROLLED BAR	10 1/2 x 2 3/4 ✓		
STERN FRAME {	Propeller Post	Cast As The Wolingham ✓		
	Rudder	Steel Approved Co. Ld ✓		
Speed of Vessel		15 Knots ✓		
RUDDER—Type		Ordinary		
" A x D		688.5		
" Diam. of head		13 3/4" (INCLUSIVE) ✓		
" Mainpiece at top pintle		13 3/4" ✓		
" " heel		13 1/2" ✓		
" how constructed		Fabricated as per plan ✓		
" double single plate		.75" ✓		
" coupling, vertical or horizontal		Horizontal ✓		

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Hearth* ✓
Consett Iron Co., Ltd.; Dorman Long & Co., Ltd.; Appleby - Frodingham Steel Co., Ltd.; Skinningrove Iron
Co., Ltd.; South Durham Steel & Iron Co., Ltd.; & Carlisle Fleet Iron Co., Ltd.
 Has the Steel been tested as required by the Rules? *Yes* ✓

S.S. "WAVE KNIGHT" EX "EMPIRE NASEBY"

PARTICULARS OF LONGITUDINAL FRAMING.

SUNDERLAND RPT. NO 34481

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. Inches.	Rivets in Brackets to Bulkheads.	
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		Diam. Ins.	Speng. Ins.		Number.	Diameter. Inches.
Spacing of Longitudinal Frames		30, 33 & 36											
Tank Top Longitudinals													
Bottom		15 x 4 x 4 x .50			✓								
of Longitudinals		33			✓								
At ends...													
Transverses.													
Side (in 'tween Decks)		18 x .38, FL. 3/2			✓								
Face Angles		✓											
Lugs to Shell*		WELDED			✓								
Side (in Hold)		45 x .44			✓								
Face Angles		FL. 6" @ 10'-6" SPACING			✓								
Lugs to Shell*		6 6 7/16 INTER			✓								
Bottom (in WING TANKS)		42 x .44			✓								
Face Angles		FL. 6" @ 10'-6" SPACING			✓								
Lugs to Shell*		6 6 7/16 INTER			✓								
Back Bars		✓											
Brackets		✓											
Spacing of Transverse Frames...		8'-9" & 10'-6"			✓								
* State if joggled or liners.													
Longitudinal Beams of		7 3 .33			✓								
Upper		9 3/2 3/8			✓								
Second													
Third													
Transverse Beams		11 x 3 1/2 x .43			✓								
Face Angles		FL. 4 1/2" @ 8'-9" SPACING			✓								
Lugs to Shell*		FL. 6" @ 10'-6"			✓								

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

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.

EQUIPMENT No. 48389 ✓

LETTER d7 ✓

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.
47619	1st Bower	Cwts. 82 qrs. 0 lbs. 0	Cwts. 59 qrs. 10 lbs. 0	✓	81 1/4 ✓	Stockless	✓	LPH.S., 30/4/45 F.W.D.
47413	2nd "	81 1 0	55 10 0	✓	81 1/4 ✓	do.	✓	LPH.S., 21/3/45 F.W.D.
49029	3rd "	69 2 18	53 12 2	✓	69 1/2 ✓	do.	✓	LPH.S., 8/2/45 F.W.D.
	Collective weight	232 3 18			232 ✓			
47732	Stream	29 2 21	28 8 3	✓	23 1/2	do.	✓	LPH.S., 26/5/45 F.W.D.

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. Ins.	Stator. Break. ing.	Supplied. Per Rule.	Fathoms. Ins.					Fathoms. Ins.	Tons.	Fathoms. Ins.
20871	237 1/2 2 1/2	112 1/2 157 1/2	754 3-21 940	309 2 1/2	Strud Link	✓	LPH. LW, 9/7/45 R.J.V.	TOWLINE	130 5 1/2	84.4	130 5 1/2
21140	60 2 1/2	112 1/2 157 1/2	187-0-14		do.	✓	LPH-LW 14/7/45 R.J.V.	HAWSERS & WARPS	40/100 2 3/4	15.2	40/100 2 3/4
5405	E.W. 1/2" 1/2" 1/2"	112 1/2 157 1/2	3-2-8				LPH-G 30/3/46 LLW				
5437	Fr 2 1/2" 1/2" 1/2"		3-2-6				LPH-G 23/4/46 LLW				
			949-0-21								
Lead Stream	120 4 3/4	-	64.6	120 4 3/4	G.S.W.						

Steering Gear, Type (Power or hand) Donkin & Co., Ltd. Steam with ✓

Alternative Means of Steering to after warping which

Steering Chains (Size and Test) ✓

Windlass Steam, Tyne Metal Co. Ltd. Boats 28.0 x 9.5 x 4.0 ✓

Ceiling in Holds, thickness and material

To FORE HOLD - Strong steel plates & stiffeners, welded to deck

Cargo Battens, thickness, material and spacing

Cargo Hatchways (Upper Deck) Steel Coaming 10" x 7/4" thk., welded to deck ✓

To FORE HOLD - 50" THK. (EFFICIENTLY STIFFENED)

To Cargo tanks throughout 48" dia. To FORE HOLD - 9' 0" x 11' 0"

Size of Hatchways No. 1 (Fore)

No. 2

No. 3

No. 4

No. 5

No. 6

Number of Shifting Beams and/or Fore and Afters

Builder's Signature

SIR JAMES LAMOND & SONS 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. Yes ✓

(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).

This ship has been built in conformity with the Society's Rules and Regulations & the Secretary's letters. The scantlings and arrangements are in accordance with or equivalent to those shown on the approved plans. The materials and workmanship are of good quality.

The double bottom, peaks, deep oil fuel and fresh water tanks, the cargo oil tanks and cofferdams, decks, bulkheads, W.T. doors, steering gear, hand pump, and windlass have been tested and found satisfactory. The freeboards assigned by the Committee have been verified and cut-in on the vessel's sides.

Oil is carried as fuel in the oil fuel cross bunker (P.E.S., frs. 49-50), in 2 forward deep tanks (frs. 79-93 and frs. 93-101), in deep tank aft under boilers (frs. 19-30), in 2 settling tanks (P.E.S., frs. 45-49), and in O.B. tank under engines (frs. 40-49). The flash point of oil is not lower than 150°F. Section 20 of the Rules has been complied with.

The vessel between the forward and after cofferdams, frames 78-79 and 50-51 respectively, (P.T.O. for continuation)

The amount of Entry Fee..... £ 11: ..

Fees applied for,

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

Special Survey Fee..... £606 ..

Specification 151.10

Freeboards 19

Travelling Expenses, if any..... £ ..

Received by me,

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

Carrying Petroleum in Bulk.

For W.C. Miller & Self

Signature D.S. Forryth

Surveyor to Lloyd's Register of Shipping.

State whether the Vessel has been built under Special Survey

Yes

Certificate to be sent to

SUNDERLAND

Date of issue

16/7/46

Committee's Minute

FRI. 28 JUN 1946

Character assigned

+100A1 "Carrying Petroleum in bulk"

5.46 Sld.

Fitted for oil fuel 5.46 F.P. above 150°F

Lloyds A+C.P.

LMC* 5.46

Machy aft.

F.D. C.L. 2 WTB 46016 (Spt 44016)

2 D.B. 18016

White Abn

Low

Mach

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Lloyd's Register Foundation

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.)

is divided into 18 cargo tanks viz:- 6 centre and 6 wing tanks (P.E.S.) for the carriage of petroleum in bulk. The pump room is arranged between the No. 3 & 4 tanks (for 63-65).

This ship is the first of this "straight framed" type to be built by Messrs. J. Laing & Son, Ltd., but otherwise she is generally similar to the Builders' Yard No. 761 - S.S. "Empire Herald," Sunderland Rpt. No. 34427.

The following casting certificates are enclosed:- Sternframe, Rudder head & frame, and Quadrant.

Vessel placed in drydock, shell plating and rudder cleaned, examined and coated.

PARTICULARS OF ELECTRIC WELDING (if employed)

Butts of keel, shell, upper deck, bridge deck, forecabin deck plating welded; poop dk., bridge deck, upper deck inside poop & forecabin, tank top flat, & stringers aft, & tank top forward welded to shell; transverse bulkheads welded to longitudinal bulkheads, to deck and to shell on flat of bottom; longitudinal bulkheads welded to shell & to deck; seams & butts of longitudinal bulkheads welded; bulkhead girders welded to bulkheads; transverses welded to deck, to longitudinal bulkheads and to shell in centre tanks; poop, bridge & fore cabin frames welded to deck; hatch & ventilator coverings & other items of minor importance welded. Electrodes complying with Sect 4 of the Rules have been employed for manual welding & the Rules for the Application of Electric Arc Welding in Ship Construction have been complied with where applicable.

SPECIAL NOTATIONS:

Either as part of the vessel's class or for record in the Register Book.
Carrying Petroleum in Bulk; Fitted for oil 5, 46, F.P. above 150°F; Longitudinal framing; Butts of shell and deck electrically welded; Cruiser stern; Echo Sounding; Gyro Compass; Direction Finder; Wireless and Radar.

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

(INCLUDING PINS)

1st Bower

50 - 2 - 7

2nd "

51 - 0 - 0

3rd "

44 - 1 - 18

STREAM.

18 - 1 - 21

J.H.J.

A.E.G.

A.E.G.

A.E.G.

6658

6698

7998

7056

3-1-45

20-10-44

30-11-45

29-12-44

PARTICULARS FOR RECORD in the REGISTER BOOK.

Length of Poop 121.0 ft., R.Q.D. - ft., Bridge 45.6 ft., Forecabin 48.9 ft.

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

Official No. 180875

Signal Letters

Extreme Breadth over Belting No belting

Over-all Length 493.8'

No. and Material of Decks

One (1) Steel deck (upper)

(Circ. 1611)

Forecabin, Bridge & Poop decks, steel.

Parts of Bottom of Vessel coated with cement or approved composition. F & A. peak tanks & E.R. after well cemented on bottom shell and elsewhere in these tanks & in cofferdams & in fresh water tanks cement wash. All other tanks uncoated as required to carry oil as fuel or cargo.

Particulars of composition (if fitted) and of approval. Tank top & bilges in machinery spaces coated with bitumastic solution.

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.
Double bottom, aft,	Feet.	Tons.	Fore peak tank,	Feet.	Tons.
Double bottom, under Engines and Boilers,	✓	✓	After peak tank, (Fitted F.W. only)	24.75	52.0
Double bottom, if under Engines only,	47.5	62.0	Deep tank, aft, (FRS. 19-20)	18.00	158.0 (S.W.)
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward, (FRS. 19-20)	27.50	310.0
Double bottom, forward,	✓	✓	Other tanks, if fitted, (FRS. 19-20)	27.25	589.0
Total length (if continuous) and Capacity	47.5	62.0	Other tanks, if fitted, (FRS. 19-20)	18.00	183.0
			Other tanks, if fitted, (FRS. 19-20)	18.00	167.0
			Other tanks, if fitted, (FRS. 19-20)	2.75	113.0

Order for Special Survey No. 6135

Date 3. 6. 44

Dates of Surveys held while building

1944. Nov. 2, 7, 21, 29. Dec. 5, 11, 12, 18, 19, 21. 1945. Jan. 2, 3, 5, 10, 12, 16, 17, 25. Feb. 1, 6, 15, 20, 21, 26, 27. Mar. 2, 6, 7, 9, 12, 15, 19, 20. Apr. 10, 13, 16, 30. May 3, 6, 14, 15, 16, 17, 22, 24, 25, 29, 30, 31. June 4, 5, 6, 7, 11. 12, 19, 21, 22, 26, 27. July 2, 3, 4, 9, 11, 12, 16, 17, 18, 20, 26, 30. Aug. 1, 2, 8, 9, 14, 17, 27, 29, 30. Sep. 10, 11, 12, 13. 14, 17, 18, 21, 25, 27, 28. Oct. 1, 2, 4, 5, 6, 8, 9, 10, 11, 12, 15, 17, 18, 19, 22, 23. Nov. 15, 20, 26, 29. Dec. 20, 29, 31. Jan. 7. 16, 23, 30. Feb. 6, 13, 20, 27. Mar. 6, 13, 28. Apr. 3, 10, 24, 25. May 13, 14, 20, 22, 23, 24, 28, 29, 30. Total No. of Visits 139