

State if Report is sent on the Machinery of the Vessel..... Yes

On the (State if Machinery fitted Aft and
if Single, Twin or Triple Screw) Single Screw. M. Y. "ONDO"

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *complete superstructure with Tonnage opening* State Type of Erections *Pop. Bldg & Forecastle*

CLASS ✠ 100 A1 State if with freeboard } No
as condition of Class }

Built at Belfast

56 of space or spaces }
 'ween Tonnage Dk. } ✓
 d Upper Dk. }

Length from fore part of stem to after part of stern } L 425. c
post on summer L.W.L. See Sec. 3 (1a)

Launched 7th June 1956 Yard No. 1554

4153.13

Breadth (greatest moulded) B 62.0

Builders Harland & Wolff Ltd.

Tonnage 5434.84

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) } D / 34.0

Owners Elder Dempster Lines Ltd.

Net Tonnage 2758.16.

1st Longitudinal Number (L \times D).....=

10

n. D/W. 8628.

2nd Numeral $L \times (B + D)$ =

Managers ✓
(Where necessary to be entered in Reg. Book)

REGISTERED DIMENSIONS.

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

Residence ☒

434.6

Proportions—Depth to Length—Uppermost con- } 12.5

Dept of Registry *Liverpool*

width 62.3

Do. Long Bridge to) /

Book of Registry 220-92002

20.75

top of keel } ✓

if surveyed while building, afloat, or in dry dock

1

draught Moulded
RISE OF FLOOR = 2"

During building, Aploa's in drydock
Date of unloading 3rd Dec 1951

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.....	30		Bracket Floors, Frame	✓	
" " from 1/2 length amidships to Collision bulkhead.....	27		" " Reversed Frame.....	✓	
" " in peaks	24		" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	48 x .52"	
Frame Amidships, Angle, E or C	12 3 1/2 .48		" " top Angles	3 1/2 3 1/2 .46	
" " Extends up to.....	upper deck		" " bottom Angles.....	5 5 .51	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness.....	1 @ .36, .40 ER.	
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	41 x .51	
Depth of Framing Girder.....	12"		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	welded	
Frames in Uppermost Continuous 'tween Decks, Angle, E or C	6 3 1/2 .32		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	welded	
" " Second 'tween Decks, Angle, [or C	✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	Inner bottom plating extended 18"	
" " Third " "					

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, breadth and thickness in way of Bridge	✓	.35, .29, .36	
" in 'tween Decks, Size and Spacing	Wide spaced as per approved plans.			Thickness of Plating abreast Deck openings in way of Wells	✓	.35 to .29	
" " " " "				Thickness of Plating abreast Deck openings in way of Bridge.....	✓	.29	
" in Holds " " "				Thickness of Plating within line of openings...	✓	.29	
" " " " "				If Sheathed, material and thickness.....	✓		
Centre Line Bulkhead. Stiffeners and Spacing	✓			Third Deck. Stringer Plate, breadth and thickness.....	✓		
Plating, thickness of	✓			If Plated, state thickness	✓		
STRINGERS AND DECKS.				Fourth Deck. Stringer Plate, breadth and thickness.....	✓		
Uppermost Continuous Deck. (SHELTER DX.)				If Plated, state thickness.....	✓		
Stringer Plate, breadth and thickness in Wells	62 x .70.			Poop Deck. Stringer Plate, breadth and thickness.....	✓	.30	
" " " " in way of Bridge	56 x .40.			Plating, Sheathing, material and thickness ...	✓	.25 x .27, 2 1/2" wood	
" " " " at Bridge front	62 x 1.30			Bridge Deck. Stringer Plate, breadth and thickness.....	✓	.61 x .49	
" " " " " End	62 x .88			Plating, Sheathing, material and thickness ...	✓	.44, 2 1/2" wood	
" Angle in Wells	1/6 6 .70 to 3 1/2 3 1/2 .48			Forecastle Deck. Stringer Plate, breadth and thickness.....	✓	.30 x .28.	
Thickness of Plating abreast Deck openings in way of Wells	✓ .70 to .38, 1.2 at No 3 Hatch			Plating, Sheathing, material and thickness... ..	✓	.28	
Thickness of Plating abreast Deck openings in way of Bridge.....	✓ .35						
Thickness of Plating within line of openings...	✓ .36 to .35.						
If Sheathed, material and thickness.....	✓						
Second Deck.							
Stringer Plate, breadth and thickness in Wells	✓ .36 x .35						
" " IN WAY OF ENG. CAS.	✓ .29.						

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.....	52	.83	.91	.91		double	7/8	3 3/4	4	1	3/8	strapped	
„ Dblg. (if any)	24	1.00	1.00	1.00	Owners req ^t								
Bottom Plating, No. of Strakes #	10 30	.61 .61	.48 .73, .48	.49 .49		double	7/8	3 3/4	Welded.				
Bilge Plating, No. of Strakes 1		.61	.48	.49		"	"	"	"				
Side Plating, No. of Strakes 3	"G" 7 x 7	.60 .65	.46 .46	.48 .46	} See Shell plan for .05" Owners Req ^t	"	"	"	"				
SWELTER Deck, Sheer-strake in Wells.....	61	.75	.48	.37	Part construct of P. 1103 Steel indicated thus & see app. Shell plan for extent.	"	"	"	"				
SWELTER Deck, Sheer-strake in Bridge ...	61"	.75	1.25 at Breaks 1.12 "	forward and aft.		"	"	"	"				
Strake below Sheer-strake in Wells.....		.60	.48	.46		"	"	"	"				
Strake below Sheer-strake in Bridge60	-	-		"	"	"	"				
Poop Side Plating.....		-	-	.33		single	3/4	3 1/2	"				
Bridge Side Plating.....		.57	.71 at Breaks	for & after.		"	7/8	3 3/4	"				
Forecastle Side Plating		-	.37	-		"	3/4	3	"				

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) *✓ One to Shelter deck*

„ Deck next below *✓ 6 to upper deck*

As per Rule *7*

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
KEEL, Bar		Plate Keel		
STEM		M.S. 5" dia & .75% .50 plate		
STERN FRAME.	<div> <div>Propeller Post</div> <div>Rudder</div> </div>	<div> <div>C.S. as</div> <div>approx</div> </div>	<div> <div>Klockner-Georgs</div> <div>DSF 3+3 J.L. 11/12/54</div> <div>Marienwerke AG</div> </div>	
Speed of Vessel		12 1/2 knots		
RUDDER—Type		Ordinary double plate		
" A x D.		173 ft.		
" Diam. of head		F.S. 13 3/4	Klockner-George marienwerke 13 1/4 in	
" Mainpiece at top pintle		Coupling portion C.S. by	DSF 3 1/5 J.L. 5/12/54	
" " heel		Klockner-Georgs	Marienwerke	
" how constructed		Fabricated by Builder as		
" double or single plate		per approved plan - double		
" coupling, vertical or horizontal		Horizontal		

			Plating Thickness.	STIFFENERS.			
				VERTICAL.		HORIZONTAL.	
				Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'tween decks			✓ .26	✓ 3½ x 2½ x .30	✓ I 30"	✓	✓
FR. 70	"	Second	✓				
"	"	Third	✓				
"	"	Holds	✓ .37 to .26	✓ 8 x 4 x .40	✓ I 30"	✓	✓
COLLISION							
"	"	(in Hold) { FR 166	✓ .52 - .33	✓ 7 x 3½ x .38	✓ I 24"	2 STRINGERS	
		" 169	✓ .30 - .26	✓ 6 x 3 x .35	✓ 2 x 3½ x .40	I F.P. FLAT.	
AFTER PEAK							
"	"	" ...	✓ .9	✓ .48, 1.0, .45	✓ 5 x 3 x .34	✓ I 24"	6 x 3 x .42 I @ 30"
		" ...	✓ .11	✓ .30	✓ 5 x 3 x .34	✓ I 24"	STRINGER 24 x .36

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Siemens Open hearth
bolvilles Ltd, Steel Co. of Scotland, The Lanarkshire Steel Co. Smith & McLean Ltd.
(P403 quality steel by bolvilles Ltd)

Has the Steel been tested as required by the Rules? yes.

EQUIPMENT No. 42313

LETTER 67

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.
6520	1st Bower	Cwts. qrs. lbs. 69 3 7	Cwts. qrs. lbs. 53 15 0	Tons. cwt. qrs. lbs. 15 0 0	✓ 69½	BYERS TYPE CAST STEEL HEAD.	SAM. TAYLOR & SONS.	NETHERTON. 23-2-56. H. MURPHY.
6519	2nd "	69 3 0	✓	53 12 2 0	✓ 69½	-Do-	-Do-	-Do- "
6518	3rd "	69 2 21	✓	53 12 2 0	✓ 69½	-Do-	-Do-	-Do- "
	Collective weight	209 1 0			208½			
6521	Stream	21 1 7	5 2 0	21 18 0 14	20½	RODGERS F.S. ELECT. WELDED.	-Do-	-Do- "

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- Break- tory. ing.	Supplied. Per Rnle.	Length. Diam.					Length. Cir.	Tons. Fathoms	Length. Cir.
33038	300' 2 1/16	107.1 149.9	658:2:12	✓	300' 2 1/16	STUD LINE TAYCO	SAM. TAYLOR	NETHERTON 2/2/56 H. MURPHY.	TOWLINE	120' 5 (6/24)	68.9 120' 5
									HAWSERS & WARPS	4 @ 100' 3 1/4 (6/12)	21.1 4-100' 3 1/4
Iron Stream	120' 5				120' 5	Steel Wire	Syne Wire Rope Co. Ltd.	Makers Certificate 8/5/56.			
Steel Wire	6 1/2	49.5									

Steering Gear, Type (Power or hand) *J. Hastie Elec-Hydraulic 4 ram type* Alternative Means of Steering *when Elec-motor fails Air motor automatically cuts in.*

Steering Chains (Size and Test) *telemotor control* Windlass *Clarke Chapman Elect.* Boats *4 Lifeboats*

Ceiling in Holds, thickness and material *2 1/2" wood* Cargo Battens, thickness, material and spacing *6x2 @ 9"*

Cargo Hatchways. *SHELTER (Upper Deck)* *Steel plates & angles* Thickness of Hatches *3" wood*

Size of Hatchways No. 1 (Fwd.) *29'-3" x 18'-0"* No. 2 *37'-6" x 18'-0"* No. 3 *10'-0" x 18'-0"* No. 4 *37'-6" x 18'-0"* No. 5 *27'-6" x 18'-0"* No. 6 *✓*

Number of Shifting Beams and/or Fore and Afters } *5. 6. 1. 6. 4.*

Builder's Signature

For HARLAND AND WOLFF LIMITED

Storn & Patton

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. *yes (motorship)*
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *yes Edible Oil* 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 Nos 1, 2, 3, 5 & 6 double bottom tanks & motor room double bottom tanks, F.P. above 150°F and Palm oil in Deep tanks forward of machinery space.

This vessel has been built under Special Survey in conformity with the Society's Rules & Regulations and Secretary's letters. The scantlings and arrangements of the ship are as given in the report and as shown and amended on the approved plans now forwarded. All modifications or additions to the original approved arrangements made during construction have been indicated on the plans and have been approved as being in accordance with or by standards equivalent to the Rule requirements. The plans of Midship Section, Framing & Bulkhead Profile and Shelter deck plan showing the ship as built, now forwarded herewith, have been checked with the approved arrangements and found in order. The material and workmanship are good. The double bottom tanks, cofferdams, Fore & After peaks & Deep tanks have been tested to Rule requirements and found satisfactory. The weather decks, W.I. Bulkheads, flats, tunnel

The amount of Entry Fee..... £ : :
Freeboard Assgmt. 441:0:0
Special Survey Fee. *£90.9*..... £ : :
less special rebate 20% 182 *727:0:0*
Travelling Expenses, if any £ ✓ : :
Fees applied for, *19-11-1956*
Received by me, *19*

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

I am of opinion the Vessel should be Classed *100 A.I.*State whether the Vessel has been built under Special Survey *yes*Signature *A.S. Gleicher and for.*Surveyor to Lloyd's Register of Shipping *P. Shaw.*Certificate to be sent to *Belfast* Date of issue *22/2/57*Committee's Minute *FRIDAY 28 DEC 1956*Character assigned *1100 A.I.**Carrying reg. oil in midship deep tank**LACB**10.56**+LMC 10.56**DB 120 lb.**CL.*

Noted for Header

NOTED FOR POSTING

DC429

004300-004307-0154 2/2

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.)

tunnel escapes and sidelights have been satisfactorily hose tested. The watertight doors, steering gear, windlass, anchors & cables and Bilge suction have been tried under working conditions and found satisfactory.

The freeboards assigned have been cut in on the ships' side, verified and Load line certificate & copy issued.

The ship is similar to "OTI" Belfast report No. 16128 Harland & Wolff Yaw No. 1546.

Interim certificate issued copy attached.

The forging & casting certificates are forwarded herewith together with mill sheets.

P.403 Special Quality steel plates used for Shelter deck at each end of Bridge, Sheerstrake from frames 48 to 125. Tank top 1 1/2" plating in engine room in way of main engine and Fore and after masts. For extent see Shell plan and Shelter deck "as fitted" plan.

Approved plans as per attached list, and "As fitted" plans of Midship Section, Framing and Bulkhead Profile, and Shelter deck plating.

Statement re-condition of ship when surveying duties transferred from P. Shaw to A.S. Blatches.

The scantlings of this ship are suitable for a Summer moulded draft of 23'-0". Vessel fitted with tonnage opening on Shelter deck.

PARTICULARS OF ELECTRIC WELDING (if employed) Butts of shell plating, butts & seams of Shelter deck and butts of upper deck, Deep tanks, tunnel & W.I. Bldg all welded. Tank top seams & butts, Tank margin with floors & brackets to same welded. Deck girders, Engine seats and Rudder.

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

Cruiser stern, Port Ske-welded, D.F., E.S.D., S.Y.C., 7 Bldg (Collision to Shelter dk & 6 to upper deck), carrying vegetable oil in deep tanks, (Fitted for oil fuel 10,56 F.P. above 156°F Radar

RADAR Equipment (State if fitted) yes

State Type or Pattern No. 1412A, Ser. No 1042

State } Maker... Marconi - Radiolocator
Name } and/or
of } Supplier

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

1st Bower	✓ 47 cwt	0 GR.	21 lbs A.E.G.	6109.	19-8-55	(ATTACHED TO CERT. LPHN. 6520
2nd	✓ 47 "	0 "	7 " A.E.G.	6158.	30-8-55	(" " " 6519
3rd	✓ 47 "	1 "	3 " A.E.G.	6157.	30-8-55	(" " " 6518

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 39.75 ft., R.Q.D. ✓ ft., Bridge 77.5 ft., Forecastle 45.25 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated, not joined

Official No. 187146 Signal Letters Extreme Breadth over Belting 62.3 Over-all Length 450'-0" (Circ. 1611) (Circ. 1703)

No. and Material of Decks One steel deck & shelter deck

Parts of Bottom of Vessel coated with cement or approved composition Cement wash & fillets in F & A. Peaks, and in Double bottom tanks clear of oil fuel

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.
				<div>Fect.</div>	<div>Tons.</div>
Double bottom, aft, <div>N^o4 FW</div>	<div>22-6</div>	<div>134 FW</div>	Fore peak tank, <div>WB or FW.</div>	<div>24-9</div>	<div>140 WB</div>
Double bottom, <div>OF or WB</div> under Engines and Boilers , <div>N^{os} 5 & 6</div>	<div>126-0</div>	<div>367 WB</div>	After peak tank, <div>WB or FW.</div>	<div>22-0</div>	<div>182 WB</div>
Double bottom, if under Engines only, <div>M.R. DIESEL</div>	<div>25-0</div>	<div>128 D.O.</div>	Deep tank, aft,	<div>✓</div>	
Double bottom, if under Boilers only, <div>RES. FEED</div>	<div>30-0</div>	<div>159 FW</div>	Deep tank, forward, <div>Palm oil.</div>	<div>32-6</div>	<div>1220 W</div>
Double bottom, forward, <div>N^{os} 1, 2 & 3.</div> <div>OF or W.B.</div>	<div>173-3</div>	<div>850 WB</div>	Other tanks, if fitted,	<div>✓</div>	
Total length (if continuous) and Capacity	<div>376-9</div>		(If necessary furnish further information by sketch.)	<div>✓</div>	

Order for Special Survey No. 1059

Date 3.3.55

Dates of Surveys held while building

1955 July 29 Aug. 12.26 Sept 5.15 Oct 3.26 Nov 3.5.11.16.18.21.25 Dec. 1.5.6.8. 21.22.28 1956 Jan 5.9.17.18.19.20.24.31 Feb 28.9.10.15.16.29 Mar 16.19.26.27.28 Apr 9.12.16.18.20.23.24.30 May 1.4.7.8.10.11.14.15.17.18.21.22.23.25.29.30 Jun 1.4.5.6.12.20.22.27 July 3.30 Aug 10.13.14.20.27.28.29 Sept 5.13.18 Oct 2.11 12.15.18.19.22.23.24. Total No. of Visits 95