

now KING EDGAR

No. 69647

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

When handed in at Local Office 28.5.1945 Port of GLASGOW.

Survey held at GLASGOW. Date, First Survey 10th Oct. 1941 Last Survey 11th May, 1945.
(Number of Visits 38)

on the S.S. "EMPIRE GAMBIA" Tons { Gross
Net

at GLASGOW By whom built HARLAND & WOLFF LTD. Yard No. 1283.G. When built 1945.
A/103 MSM

made at GLASGOW. By whom made HARLAND & WOLFF LTD. Engine No. 8443/2 When made 1945.

made at GLASGOW By whom made BARCLAY CURLE & CO. LD Boiler No. 42/18 When made 1945.

Indicated Horse Power 2500 Owners MINISTRY OF WAR TRANSPORT. Port belonging to _____

Horse Power as per Rule 510 Is Refrigerating Machinery fitted for cargo purposes NO Is Electric Light fitted YES

for which vessel is intended _____

Engines, &c.—Description of Engines. Triple Expansion. Revs. per minute 76

Cylinders 24 1/2" - 39" - 70" Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3

Shaft, dia. of journals as per Rule 14" as fitted 14 1/4" Crank pin dia. 14 3/4" Mid. length breadth 22" Thickness parallel to axis 9"

as per Rule 13.33" as fitted 13 5/8" Crank webs Mid. length thickness 9" shrunk Thickness around eye-hole 6 5/8"

Main Shafts, diameter as per Rule 14" as fitted 14 1/2" Thrust shaft, diameter at collars as per Rule 14" as fitted 14 1/2"

Propeller shaft, diameter as per Rule 14.85 as fitted 15 1/4" Is the tube shaft fitted with a continuous liner Yes

Bushes, thickness in way of bushes as per Rule 9/16" as fitted 13/16" Thickness between bushes as per Rule 21/32" as fitted 21/32" Is the after end of the liner made watertight in the stern tube YES

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner _____

Does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive _____

Are bearings fitted, is the shaft lapped or protected between the liners _____ Is an approved Oil Gland or other appliance fitted at the after end of the tube _____

If so, state type _____ Length of Bearing in Stern Bush next to and supporting propeller 5'-1"

Dia. 18'-3" Pitch 16'-6" No. of Blades 4 Material Cast Iron whether Moveable No Total Developed Surface 110 sq. feet

Can one be overhauled while the other is at work _____

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Pumps connected to the Main Bilge Line { No. and size _____ How driven _____

Lubricating Oil Pumps, including Spare Pump, No. and size _____

Independent means arranged for circulating water through the Oil Cooler _____ Suctions, connected to both Main Bilge Pumps and Auxiliary _____

Room _____ In Holds, &c. _____

Circulating Pump Direct Bilge Suctions, No. and size _____ Independent Power Pump Direct Suctions to the Engine Room Bilges, _____

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes _____

Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges _____

Connections fitted direct on the skin of the ship _____ Are they fitted with Valves or Cocks _____

Are they sufficiently high on the ship's side to be seen without lifting the stokehold plates _____ Are the Overboard Discharges above or below the deep water line _____

Are they fitted with a Discharge Valve always accessible on the plating of the vessel _____ Are the Blow Off Cocks fitted with a spigot and brass covering plate _____

Are they protected _____ How are they protected _____

Have they been tested as per Rule _____

Are the Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____

Arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another _____ Is the Shaft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____

BOILERS, &c.—(Letter for record _____) Total Heating Surface of Boilers _____

Boilers are fitted with Forced Draft _____ Which Boilers are fitted with Superheaters _____

Description of Boilers _____ Working Pressure _____

REPORT ON MAIN BOILERS NOW FORWARDED? No. See Glasgow Report No. 67860

DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____

Can donkey boiler be used for domestic purposes only _____

Are approved plans forwarded herewith for Shafting 26-4-41 Main Boilers _____ Auxiliary Boilers _____ Donkey Boilers _____

(If not state date of approval)

General Pumping Arrangements _____ Oil fuel Burning Piping Arrangements _____

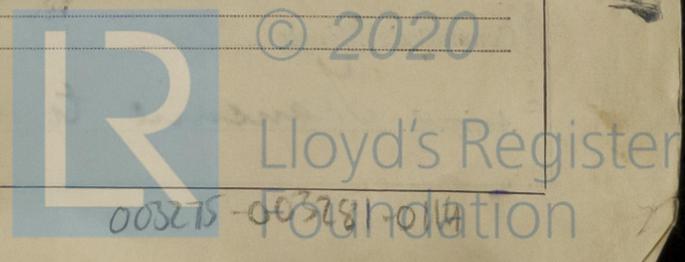
SPARE GEAR.

Spare gear required by the Rules been supplied as per Rules and Specification.

Principal additional spare gear supplied _____

The foregoing is a correct description.
HARLAND AND WOLFF, LIMITED
Wm. J. Wright
Finniston Secretary

Manufacturer.



Dates of Survey while building

During progress of work in shops - -
 During erection on board vessel - - -
 Total No. of visits

1941 Oct 10 Dec 29 1942 Jan 19 Apr 21 May 1 Jun 10 20 Sep 15 Dec 7. 8. 10. 11. 15. 18 1943 Dec 19 20
 Jun 7. 30 Jun 23. 29 Aug 12. 27 Sep 6. 9. 15 Nov 18. 24 Dec 21. 1944 Jan 21. 24 May 1 Nov 30 1945 Apr 5. 19. 22

38.

Dates of Examination of principal parts—Cylinders 6 and 9-9-43. Slides 15-9-43 Covers 9-9-43.
 Pistons 15-9-43. Piston Rods 18-11-43. Connecting rods 18-11-43.
 Crank shaft 7-5-43. Thrust shaft 30-11-44. Intermediate shafts 30-11-44.
 Tube shaft - Screw shaft 30-11-44. Propeller 30-11-44.
 Stern tube 30-11-44. Engine and boiler seatings Engines holding down bolts

Completion of fitting sea connections.
 Completion of pumping arrangements. Boilers fixed. Engines tried under steam.
 Main boiler safety valves adjusted. Thickness of adjusting washers

Crank shaft material Steel Identification Mark Lloyd's 8443/2 P.F. Thrust shaft material Steel Identification Mark as below
 Intermediate shafts, material Steel Identification Marks as below Tube shaft, material - Identification Mark -
 Screw shaft, material Steel Identification Mark as below Steam Pipes, material Test pressure Date of Test

Is an installation fitted for burning oil fuel. Is the flash point of the oil to be used over 150° F.
 Have the requirements of the Rules for the use of oil as fuel been complied with.
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo. If so, have the requirements of the Rules been complied with.
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with.

Is this machinery duplicate of a previous case. Yes. If so, state name of vessel M.W.T. Specification 24 1/2" - 39" - 7" Engine. Glasgow Report No. 66046

General Remarks (State quality of workmanship, opinions as to class, &c.)
 This machinery has been built under Special Survey and in accordance with the approved
 the Rules of this Society, and the Ministry of War Transport Specification.
 The materials and workmanship are good.
 This engine is being despatched to Messrs. Harland & Wolff Ltd., Govan for fitting on board
 a vessel No. 1283 building at their Yard to B.C. Classification.

MARKS ON SHAFTING.

SCREW SHAFT	THRUST	INTERMEDIATE	INTERMEDIATE	INTERMEDIATE	INTERMEDIATE	INTERMEDIATE
LLOYD'S	C.F. & CO.	N.A.	N.A.	N.A. 711	A. 608	A. 608
F. 950	8930	630	651	H.T. 20643-2	H.T.	H.T.
11329	48533	H.T.	H.T.	S.E.T.	10447-1	S.E.T.
H.A.I.	5465	10639-1	20341-2	14 No. 2	S.E.T.	13
20-4-42.	LLOYDS	S.E.T.	S.E.T.		10 No. 3	
	6250	11 No. 3	12 No. 3		B.C.N. 2798	
	O.N.					
	30 JUN. 41					

INTERMEDIATE	INTERMEDIATE
N.A. 489	1283/4. 2
H.T. 1118-1	LLOYD'S
S.E.T. 6 No. 3	F. 3524
	H.A.I.
	12-5-44.

The amount of Entry Fee	£ - : -	When applied for,	
Special 2/5 of £100.10.0	£ 40 : 4	29 MAY 1945	
SPECIFICATION	£ 10 : -	When received,	
Donkey Boiler Fee	£ : :		
Travelling Expenses (if any)	£ : :		19.

G. E. Murdoch for P. Fitzgerald & Self.
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 29 MAY 1945
 Assigned Transmit to Birmingham

19 MAR 1948
 Not for classing Committee
 Lloyd's Register
 Foundation
 See minute on Hull 54003

Certificate to be sent to
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)