

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report

19

When handed in at Local Office

22. 8. 1936

Port of Glasgow.

No. in Survey held at  
Reg. Book.

72796 on the Tri. Co. 4 Mot. "CERAMIC"

Date, First Survey

29. 5. 36

Last Survey

15- 8- 1936

(Number of Visits 35)

Gross 18713  
Tons Net 11582

Built at

Belfast

By whom built Harland &amp; Wolff Ltd.

Yard No.

When built 1913

Engines made at

Belfast

By whom made Harland &amp; Wolff Ltd.

Engine No.

When made 1913

Boilers made at

Belfast

By whom made Harland &amp; Wolff Ltd.

Boiler No.

When made 1913

Registered Horse Power

Owners Shaw Savill &amp; Albion Co. Ltd.

Port belonging to Southampton.

Nom. Horse Power as per Rule

1692

Is Refrigerating Machinery fitted for cargo purposes

Yes

Is Electric Light fitted

Yes

Trade for which Vessel is intended

25-5-12 9.25-5-022

ENGINES, &amp;c.—Description of Engines Two Reciprocating Triple Expansion

Revs. per minute 86 on Trial

Dia. of Cylinders

See under "General Remarks"

Length of Stroke 51"

No. of Cylinders 4

No. of Cranks 4

Crank shaft, dia. of journals

as per Rule 15 3/4

Crank pin dia. 16"

Crank webs

Mid. length breadth 2 1/2

Thickness parallel to axis

shrink Thickness around eye-hole 6 3/4

Intermediate Shafts, diameter

as per Rule 14 3/4

as fitted 14 3/4

Thrust shaft, diameter at collars

as per Rule 15 3/4

as fitted 15 3/4

Tube Shafts, diameter

as per Rule None

Screw Shaft, diameter

as per Rule 16"

Is the tube

screw shaft fitted with a continuous liner

Yes

Bronze Liners, thickness in way of bushes

as per Rule 1/16"

as fitted 1/16"

Thickness between bushes

as per Rule 3/16"

as fitted 3/16"

Is the after end of the liner made watertight in the

propeller boss

Yes

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

Continuous

If 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

If two liners are fitted, is the shaft lapped or protected between the liners

If so, state type

Is an approved Oil Gland or other appliance fitted at the after end of the tube

Length of Bearing in Stern Bush next to and supporting propeller 66"

Propeller, dia. 18.92 Pitch 18.0 mean No. of Blades 3 Material Bronze whether Moveable Yes Total Developed Surface 93.0 sq. feet

Feed Pumps worked from the Main Engines, No. None Diameter Stroke Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. None Diameter Stroke Can one be overhauled while the other is at work

Feed Pumps No. and size 2 1/2" 17" x 12" x 24" - 1 1/2" 9" x 7" x 24" Pumps connected to the Main Bilge Line No. and size 3 1/2" 9" x 10" x 12" - 1 1/2" 12" x 8" x 12" - 1 1/2" 12" x 8" x 12"

How driven Steam

Ballast Pumps, No. and size 1 1/2" 11" x 12" x 15" Lubricating Oil Pumps, including Spare Pump, No. and size None

Are two independent means arranged for circulating water through the Oil Cooler

Bilge Pumps, In Engine and Boiler Room ER 7 1/2" 2 1/2" 2 1/2" 3 1/2" BR (7 in) 4 1/2" 2 1/2" 2 1/2" 3 1/2" BR (4 in) 4 1/2" 2 1/2" 2 1/2" 3 1/2"

In Pump Room F.P. 1 1/2" 5" 4 P. 1 1/2" 4"

In Holds, &amp;c. N°1 2 1/2" 3 1/2" 1 1/2" 2 1/2" N°2 3 1/2" 2 1/2" N°3 2 1/2" 3 1/2" 1 1/2" 2 1/2"

N°4 2 1/2" 3 1/2" 4 1/2" 2 1/2" N°5 2 1/2" 3 1/2" 2 1/2" 2 1/2" N°6 2 1/2" 3 1/2" Reserve Sinker 2 1/2" 3 1/2" 2 1/2" 2 1/2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 2 1/2" 13 1/2"

Independent Power Pump Direct Suctions to the Engine Room Bilges

No. and size 2 1/2" 13 1/2"

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

Are all Sea Connections fitted direct on the skin of the ship

Are they fitted with Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

What Pipes pass through the bunkers

What pipes pass through the deep tanks

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

Is the 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

Total Heating Surface of Boilers 30,090 sq. ft.

Is Forced Draft fitted

No. and Description of Boilers Two double end multitubular Working Pressure 215 lbs./sq. inch

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

IS A DONKEY BOILER FITTED?

Is the donkey boiler intended to be used for domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting

(If not state date of approval)

Superheaters

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

2 propeller blades (1 each hand)

1 pair each H.P. L.P. connecting rod brasses.

1 pair each H.P. L.P. crosshead brasses.

1 each H.P. L.P. valve spindle

1 eccentric strap complete

1 circulating pump shaft &amp; impeller (Leyland pump).

The foregoing is a correct description,

Manufacturer.



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Lloyd's Register  
Foundation

W157-0077



During progress of work in shops - - -

Dates of Survey while building

Daring erection on board vessel - - -

Total No. of visits

1936 May: 29 June: 2 3 5 8 9 12 16 19 23 25 July: 2 15 24 25 27 28 29 30 31 Aug: 1 3 4 12 14 15 27

35

ELECTRICAL: 1936 June: 2 8 25 July: 15 24 27 29 31 Aug: 15

Dates of Examination of principal parts - Cylinders 29.5.36 cl. Slides 29.5.36 cl. Covers 29.5.36 cl.

Pistons 29.5.36 cl. Piston Rods 5.6.36 cl. Connecting rods 5.6.36 cl.

Crank shaft P. 3.6.36. S 29.5.36 Thrust shaft P.S. 23.6.36. Intermediate shafts P.S. 29.5.36.

Tube shaft - Screw shaft S 30-7-36. P 31-7-36. Propeller 31-7-36.

Stern tube S. 30-7-36 P 31-7-36. Engine and boiler seatings 12-6-36. Engines holding down bolts 12-6-36.

Completion of fitting sea connections 29-7-36. examined, deemed out.

Completion of pumping arrangements 29-7-36. Boilers fixed

Main boiler safety valves adjusted 14<sup>th</sup> & 15<sup>th</sup> Aug. 1936. Thickness of adjusting washers

Crank shaft material S Identification Mark - Thrust shaft material Identification Mark

Intermediate shafts, material S Identification Marks - Tube shaft, material - Identification Mark

Screw shaft, material S Identification Mark - Steam Pipes, material S Test pressure - Date of Test -

Is an installation fitted for burning oil fuel No. 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 No. 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 No notation.

Is this machinery duplicate of a previous case - If so, state name of vessel -

General Remarks (State quality of workmanship, opinions as to class, &c.)

This machinery was examined throughout and the results checked against the plans forwarded with the Secretary's letter "E" 4.6.36. and later examined under working conditions.

The engines & boilers are now in good & efficient condition, eligible in my opinion to be classed in the Society's Register Book with notations L.M.C. 8.36. T.S. 8.36. C.L.

NOTE. The sizes of cylinders shown in Register Book are as follows (2) 26 $\frac{1}{2}$ " (2) 42" 4 (47 $\frac{1}{2}$ ")

The sizes as now gauged are as follows:-

	Port Eng.	Starboard Eng.
H.P. Cyl.	26" 642 mean	26" 79 mean
M.P. Cyl.	42" 144 mean	42" 138 mean
Low P. Cyl.	47" 537 mean	47" 53 mean
Opp. L.P. Cyl.	47" 539 mean	47" 559 mean

22/8/36.

The amount of Entry Fee ... Inclusive of charges ... When applied for, ... 19

Special ... When received, ... 19

Donkey Boiler Fee ...

Travelling Expenses (if any) ...

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 25 AUG 1936

Assigned L.M.C. 8.36

Note Shaft.

