

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 7-4-1942 When handed in at Local Office 13-4-1942 Port of Glasgow Received at London Office 16 APR 1942 17 NOV 1944

No. in Survey held at Clydebank. Date, First Survey 31. 1. 41 Last Survey 20-3-1942.
Reg. Book. on the To be attached to Gls Report N° 64770 EMPIRE COWDRAY

Built at By whom built Yard No. When built
Engines made at Clydebank By whom made John Brown & Co. Engine No. A 58 When made 1942.
Boilers made at By whom made Boiler No. When made
Registered Horse Power Owners Port belonging to
Nom. Horse Power as per Rule Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
Trade for which Vessel is intended

ENGINES, &c.—Description of Engines

Dia. of Cylinders 23½, 37½, 68" Length of Stroke 48" No. of Cylinders 3 Revs. per minute 3
Crank shaft, dia. of journals as per Rule as fitted Crank pin dia. Crank webs Mid. length breadth shrunk Thickness parallel to axis
Intermediate Shafts, diameter as per Rule as fitted 12.98" Thrust shaft, diameter at collars as per Rule as fitted 13.63"
Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule as fitted 14.46" Is the tube screw shaft fitted with a continuous liner Yes
Bronze Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as per Rule as fitted Is the after end of the liner made watertight in the propeller boss
If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner
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 Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft
If so, state type Length of Bearing in Stern Bush next to and supporting propeller
Propeller, dia. 18'3" Pitch 17'3" No. of Blades 4 Material C.I. whether Moveable No Total Developed Surface 108.5 sq. feet
Feed Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work
Bilge Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work
Feed Pumps No. and size How driven Pumps connected to the Main Bilge Line No. and size How driven
Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size
Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room
In Pump Room In Holds, &c.

Main Water Circulating Pump Direct Bilge Suctions, No. and size Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size
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
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 the Overboard Discharges above or below the deep water line
Are they each 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
What Pipes pass through the bunkers How are they protected
What pipes pass through the deep tanks Have they been tested as per Rule
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 Is it fitted with a watertight door worked from

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

Is Forced Draft fitted No. and Description of Boilers Working Pressure

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

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

PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
(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

The foregoing is a correct description,

Manufacturer.



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Figures in red extract'd from Gls. rpt. 64770.

See Glasgow Report No 64770

Esperanza Florizuel

During progress of work in shops - - -

Dates of Survey while building

During erection on board vessel - - -

Total No. of visits

Dates of Examination of principal parts—Cylinders _____ Slides _____ Covers _____

Pistons _____ Piston Rods _____ Connecting rods _____

Crank shaft _____ Thrust shaft _____ Intermediate shafts _____

Tube shaft _____ Screw shaft _____ Propeller _____

Stern tube _____ 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 8 Identification Mark (A-58) Thrust shaft material 8 Identification Mark 2212

Intermediate shafts, material 8 Identification Marks 3243, 2915, 3362 Tube shaft, material _____ Identification Mark _____

Screw shaft, material 8 Identification Mark 2210 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 _____ If so, state name of vessel _____

General Remarks (State quality of workmanship, opinions as to class, &c.) The propeller, stern tube, screw shafts, & intermediate shafting have now been sent to Vickers & Armstrong Barrow. The main engine which is stored at Dundee Broomer Pt Glasgow will be sent to Barrow.

Rob
13/4/42

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

The amount of Entry Fee ... £	:	:	When applied for,
Special ... £	:	:	19.....
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	:	:	19.....

Committee's Minute GLASGOW 14 APR 1942

Assigned See lcs 64770

Jas. Cairns

Engineer Surveyor to Lloyd's Register of Shipping.



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