

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

10 FEB 1926

Date of writing Report 22nd Sept 1925. When handed in at Local Office 10th Oct 1925. Port of Greenock

No. in Survey held at Port Glasgow Date, First Survey 29th June, 1925 Last Survey 22nd Sept 1925.  
 Reg. Book. on the SS "CRAIGWEN" (Number of Visits 3)

Built at Port Glasgow By whom built Robert Duncan & Co. Ltd. Yard No. 366 When built

Engines made at Glasgow By whom made D. I. Rowan & Co. Ltd. Engine No. when made

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

## ENGINES, &c.—Description of Engines

Dia. of Cylinders Length of Stroke Revs. per minute No. of Cylinders No. of Cranks

Dia. of Crank shaft journals as per rule as fitted Dia. of Crank pin Crank webs Mid. length breadth shrunk Thickness parallel to axis Mid. length thickness Thickness around eye-hole

Diameter of Thrust shaft under collars as per rule as fitted Diameter of Tunnel shaft as per rule as fitted Diameter of Screw shaft as per rule as fitted Is the Screw shaft fitted with a continuous liner the whole length of the stern tube Yes. 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 joints burned between the bearings in the stern tube, is the space charged with plastic material insoluble in water and non-corrosive If the liner does not fit tightly at the part

If two liners are fitted, is the shaft lapped or protected between the liners. Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated No. Length of Stern Bush Diameter of Propeller

Pitch of Propeller No. of Blades State whether Moveable Total Surface square feet.

No. of Feed Pumps fitted to the Main Engines Diameter of ditto Stroke Can one be overhauled while the other is at work

No. of Bilge Pumps fitted to the Main Engines Diameter of ditto Stroke Can one be overhauled while the other is at work

Total number and size of power driven Feed and Bilge Auxiliary Pumps

No. and size of Pumps connected to the Main Bilge Line

No. and size of Ballast Pumps No. and size of Lubricating Oil Pumps, including Spare Pump

Are two independent means arranged for circulating water through the Oil Cooler No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room and in Holds, &c.

No. and size of Main Water Circulating Pump Bilge Suctions No. and size of Donkey 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

Are all connections with the sea direct on the skin of the ship Yes. Are they Valves or Cocks both.

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes 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 are carried through the bunkers How are they protected

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 Screw 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?

PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers (If not state date of approval)

General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

W403-0112



© 2020

Lloyd's Register Foundation

During progress of work in shops - - -  
 Dates of Survey while building (1925) June 29. Aug. 12. Sept 22.  
 During erection on board vessel - - -  
 Total No. of visits 3.

Dates of Examination of principal parts - Cylinders Slides  
 Covers Pistons Rods  
 Connecting rods Crank shaft Thrust shaft  
 Tunnel shafts Screw shaft Propeller  
 Stern tube Engine and boiler seatings 22/9/25. Engines holding down bolts  
 Completion of pumping arrangements Boilers fixed Engines tried under steam  
 Completion of fitting sea connections 22/9/25. Stern tube 12/8/25. Screw shaft and propeller 22/9/25.  
 Main boiler safety valves adjusted Thickness of adjusting washers  
 Material of Crank shaft Identification Mark on Do.  
 Material of Thrust shaft Identification Mark on Do.  
 Material of Tunnel shafts Identification Marks on Do.  
 Material of Screw shafts Identification Marks on Do.  
 Material of Steam Pipes 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 carrying and burning oil fuel been complied with  
 Is this machinery duplicate of a previous case If so, state name of vessel

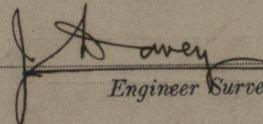
**General Remarks** (State quality of workmanship, opinions as to class, &c.)

The engine and boiler seatings, sea connections, stern tube, propeller and tail shaft have been satisfactorily fitted on board. The vessel has now left for Glasgow for installation of machinery. Glasgow Surveyors notified.

18802  
10/11/25

Certificate to be sent to  
 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

  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 9-FEB 1926**

Assigned See accompanying machinery report 