

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 27 MAR 1925

Date of writing Report 26. 3. 1925. When handed in at Local Office 26. 3. 1925. Port of Greenock.

No. in Survey held at Port Glasgow.  
Reg. Book.Date, First Survey 29th December, 1924. Last Survey 23/3/25. 19  
(Number of Visits 5)

on the SS "BENICIA"

Built at Port Glasgow. By whom built R. Duncan &amp; Co. Ltd.

Yard No. 354

Tons } Gross  
Net  
When built 1925.

Engines made at Glasgow

By whom made D. Rowan &amp; 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, &amp;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	Dia. of Crank pin	Crank webs	Mid. length breadth	Thickness parallel to axis
as fitted	as fitted	Mid. length thickness	shrunk	Thickness around eye-hole
Diameter of Thrust shaft under shafts as per rule	Diameter of Tunnel shaft as per rule	Diameter of Screw shaft as per rule	as fitted	Is the Screw shaft as fitted

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

If the liner is in more than one length are the joints burned

If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with 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 appliance fitted at the after end of the shaft to permit

of it being efficiently lubricated

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, &amp;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

Yes.

Are the Discharge Pipes above or below the deep water line

above.

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

Yes.

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Yes.

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, &amp;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.



© 2021

Lloyd's Register  
Foundation

010056-010066-0374

During progress of work in shops - -  
 Dates of Survey while building  
 During erection on board vessel - - -  
 Total No. of visits

(1924) Dec. 29. (1925) Jan. 7. Feb. 3. 21. Mar 23.

5

Dates of Examination of principal parts - Cylinders  
 Covers  
 Connecting rods  
 Tunnel shafts  
 Stern tube  
 Completion of pumping arrangements  
 Completion of fitting sea connections  
 Main boiler safety valves adjusted  
 Material of Crank shaft  
 Material of Thrust shaft  
 Material of Tunnel shafts  
 Material of Screw shafts  
 Material of Steam Pipes  
 Is an installation fitted for burning oil fuel  
 Have the requirements of the Rules for carrying and burning oil fuel been complied with  
 Is this machinery duplicate of a previous case

Pistons  
 Crank shaft  
 Screw shaft  
 Engine and boiler seatings  
 Boilers fixed  
 Stern tube  
 Thickness of adjusting washers  
 Identification Mark on Do.  
 Identification Mark on Do.  
 Identification Marks on Do.  
 Identification Marks on Do.  
 Test pressure  
 Is the flash point of the oil to be used over 150°F.  
 If so, state name of vessel

Slides  
 Rods  
 Thrust shaft  
 Propeller  
 Engines holding down bolts  
 Engines tried under steam  
 Screw shaft and propeller

2 2/3/25.  
 3/2/25.  
 2 1/2/25.  
 2 2/3/25.

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

The engine and boiler seatings, sea connections, stern tube and screw shaft have been well fitted on board the vessel.  
 The vessel has now left for Glasgow, where the engines and boilers will be fitted on board. Glasgow Surveyor notified.

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.

Committee's Minute  
 Assigned See Gen. Rpt. No. 44682

GLASGOW 26 MAY 1925

J. Avey  
 Engineer Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register Foundation