

REPORT ON MACHINERY

No. 73087

Received at London Office

Writing Report

19

When handed in at Local Office

12 MAY 1920

Port of Newcastle on Tyne

Survey held at North Shields

Date, First Survey 7th May 1917Last Survey 10th May 1920

on the SCREW STEAMER JACOBUS

(Number of Visits 75)

Built at Hull

By whom built Livingston & Co. Ltd.

Tons

When built 1920

Made at North Shields

By whom made Shields Eng. & Dry Dock Coy. Ltd.

when made 1920

Made at St. Peter's Wharf

By whom made R. & H. Hawthorn Leslie & Co. Ltd.

when made 1920

Indicated Horse Power

Owners

Port belonging to

Horse Power as per Section 28

199

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

NES, & Co.—Description of Engines

No. of Cylinders Three No. of Cranks Three

Cylinders 18" 30" 50"

Length of Stroke 33"

Revs. per minute 78

Dia. of Screw shaft

Material of screw shaft

Screw shaft fitted with a continuous liner the whole length of the stern tube

Is the after end of the liner made water tight

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

the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

If two

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

Length of stern bush

Tunnel shaft

Dia. of Crank shaft journals

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

Dia. of screw

Pitch of Screw

No. of Blades

State whether moveable

Total surface

Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Donkey Engines

Sizes of Pumps

No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room

In Holds, &c.

Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

connections with the sea direct on the skin of the ship

Are they Valves or Cocks

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

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

pipes are carried through the bunkers

How are they protected

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

Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

RS, & Co.—(Letter for record S)

Manufacturers of Steel

Heating Surface of Boilers

3642

Is Forced Draft fitted

No. and Description of Boilers

Pressure

Tested by hydraulic pressure to

360

Date of test

No. of Certificate

boiler be worked separately

Area of fire grate in each boiler

545

No. and Description of Safety Valves to

Area of each valve

5.94

Pressure to which they are adjusted

165

Are they fitted with easing gear

distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

ages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

Compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

plain part

top

Thickenss of plates

crown

Description of longitudinal joint

No. of strengthening rings

pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

cross wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

pressure by rules

Steam dome: description of joint to shell

% of strength of joint

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

vets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

HEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

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