

Rpt. 4.

REPORT ON MACHINERY

WED. JUL. 5 1922

No. 83876

Received at London Office 30 DEC 1920

Date of writing Report

19

When handed in at Local Office 30 DEC 1920

Port of London

No. in Survey held at
Reg. Book.

on the

Newbury
Engines 2396 11° Bayeskimo

Date, First Survey 8th Sept.

Last Survey 16th Dec 1920

(Number of Visits 9)

Master

Built at

Greenock

By whom built

Kincaid & Co. Eng. No. 544

Engines made at

Newbury

By whom made

Plenty & Son L^d

Boilers made at

Greenock

By whom made

John S Kincaid & Co. Ltd

Registered Horse Power

Owners

Hudson Bay Co.

Port belonging to

London

Nom. Horse Power as per Section 28

142

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines

Triple Exp. — Surface Condensing

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders

16" — 27" — 44"

Length of Stroke

30

Revs. per minute

20

Dia. of Screw shaft

as per rule 9.55

as fitted 9.07

Material of

1 1/2" steel

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 water tight

in the propeller boss

Yes

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

Yes

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

Yes

If two

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

Yes

Length of stern bush

38"

Dia. of Tunnel shaft

as per rule 8.102

Dia. of Crank shaft journals

as per rule 8.507

as fitted 8.36

Dia. of Crank pin

8 3/8"

Size of Crank webs

4" x 6"

Dia. of thrust shaft under

collars

8 3/8"

Dia. of screw

11.0

Pitch of Screw

13.0

No. of Blades

4

State whether moveable

Yes

Total surface

No. of Feed pumps

2

Diameter of ditto

3 1/2"

Stroke

15"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

3 1/2"

Stroke

15"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

Three

Sizes of Pumps

4.6 — 7 1/2 — 8 — 6.6

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

In Engine Room

In Holds, &c.

No. of Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship

Are they Valves or Cocks

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

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

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record

Manufacturers of Steel

Total Heating Surface of Boilers

2538

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure

180 lbs

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

Thickness of plates

crown

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

H624 - 0065

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

MR J. D. PLENTY & SON, LTD.
J. D. Plenty

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1920:- Sep. 8, 15, 29. Oct. 7, 14. Nov. 11, 25. Dec. 2, 16.
During erection on board vessel - - -
Total No. of visits

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 29.9.20 Slides 29.9.20 Covers 29.9.20 Pistons 29.9.20 Rods 15.9.20

Connecting rods 15.9.20 Crank shaft 8.9.20 Thrust shaft 25.11.20 Tunnel shafts Screw shaft Propeller

Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft Steel Identification Mark on Do. 695 WGN 19.2.19 697 WGN 19.2.19 Material of Thrust shaft Steel Identification Mark on Do. 25.9.20 25.9.20

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.

Material of Steam Pipes Test pressure

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 Section 49 of the Rules 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. Engines constructed under survey, material tested, workmanship good.

The above engines being forwarded to Messrs Kincaid & Co. Greenock to be fitted on board of the ship "Hermes" 70574. No steam gear or shafting made here.

The amount of Entry Fee ... £ 12 : 0 : 6 When applied for, 30 DEC 1920
Special ... £ : : :
Donkey Boiler Fee ... £ : : :
Travelling Expenses (if any) £ 2 : 12 : 6 16/3/21 J.S.M.

Thomas Blackie

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 4-JUL-1922

Assigned See Glasgow Report No. 42031



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Lloyd's Register Foundation

Rpt. 4.

Date of writing
No. in Survey Book.
on

Master

Engines made

Boilers made

Registered

Nom. Horse

ENGINE

Dia. of Cyls

Is the screw

in the prop

between the

liners & fi

Dia. of Tunnel

collars & 3

No. of Feed

No. of Bilge

No. of Donk

In Engine

No. of Bilge

Are all the bil

Are all conne

Are they fixed

Are they each

What pipes o

Are all Pipe

Are the Bilge

Is the Screw

BOILERS

Total Heating

Working Pr

Can each boiler

each boiler

Smallest distan

Thickness 1/3

long. seams

Per centages o

Size of compen

Length of pla

Working press

Pitch of stays

Material of st

Material of

Area at sma

Thickness 1/3

Diameter of t

Pitch across

thickness of g

Working pres

Diameter

Pitch of rivets

SUPERHE

Date of Test

Diameter of S