

REPORT ON MACHINERY.

No. 15420

Date of writing Report

19

When handed in at Local Office

30/10/1917 Port of

Received at London Office

WED OCT 31 1917

WEST HARTLEPOOL

No. in Survey held at
Reg. Book.

Hartlepool

Date, First Survey 31st July 1917. Last Survey 17th Sept 1917

19

on the machinery for I Blumer & Co. 240 Vessel

Tons
Gross
Net

When built

Master

Built at

By whom built

Engines made at

Hartlepool

By whom made

Richardson, Westgarth & Co. Ltd

when made 1917

Boilers made at

Newcastle

By whom made

Sam Hunter & William Richardson

when made

Port belonging to

Registered Horse Power

Owners

Is Electric Light fitted

Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

GINES, &c.—Description of Engines

Augston Turbine Generators No. of Cylinders

No. of Cranks

No. of Cylinders

Length of Stroke

Revs. per minute 76

Dia. of Screw shaft

as per rule 13.28

Material of screw shaft

as fitted 13.28

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

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 a plastic material insoluble in water and non-corrosive

yes

If two

Length of stern bush 4-6 1/2

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

Dia. of Tunnel shaft

as per rule 11.2

Dia. of Crank shaft journals

as per rule

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines

Sizes of Pumps

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 5) Manufacturers of Steel Spencer & Sons Ltd

Total Heating Surface of Boilers 3551 Is Forced Draft fitted

No. and Description of Boilers No single Ended Cyl. Mult

Working Pressure 220 Test by hydraulic pressure to 440 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 bottom Thickness of plates crown bottom

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

Material of stays

Material Thickness Pitch of stays

How are stays secured

Working pressure by rules

Material of Front plates at bottom

Area at smallest part

Area supported by each stay

Working pressure by rules

Working pressure of plate by rules

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

Diam. of rivet holes

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

How stayed

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

Tested by Hydraulic Pressure to

SUPERHEATER. Type

Date of Approval of Plan

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

Is Easing Gear fitted

Date of Test

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

005826-005839-0295

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates { During progress of work in shops - - 1917. July 31. Aug 1. 17. 21. Sep 3. 4. 17.
of Survey { During erection on board vessel - - -
while building { Total No. of visits at West Hill 7.

Is the approved plan of main boiler forwarded herewith sent to Newcastle

" " " donkey " " "

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

Connecting rods — Crank shaft — Thrust shaft — Tunnel shafts 3 1/2 17 12 1/2 17 Screw shaft 17 1/2 17 3 1/4 17 Propeller 17 1/2 17 4 1/2 17

Stern tube 3 1/2 17 1/2 17 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 — Identification Mark on Do. — Material of Thrust shaft — Identification Mark on Do. —

Material of Tunnel shafts Iron Identification Marks on Do. (5938 29/10/17) Material of Screw shafts steel Identification Marks on Do. (5938 3/4/17) 5938 3/4/17

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. Please see Certificate Letter E 9th 1916.)

Certificate (if required) 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

Engineer Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register
Foundation