

REPORT ON MACHINERY.

No. 10526
THU JUN. 3 1920

Received, at London Office

of writing Report

10

When handed in at Local Office

10

Port of

Bristol

in Survey held at
g. Book.

Brimscombe

Date, First Survey

Nov 20th 1918

Last Survey

May 22nd 1920

(Number of Visits 12)

on the

Engines 1440 for Admiralty Steel Works

Tons { Gross
Net

When built

Built at

Brimscombe

By whom built

Messrs J. J. Abdul & Mitchell

when made 1920

Engines made at

By whom made

Boilers made at

By whom made

when made

Registered Horse Power

Owners

Port belonging to

m. Horse Power as per Section 28

I.H.P. 270

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

GINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks 3

a. of Cylinders

9 1/2 x 15 1/2 x 26

Length of Stroke

18

Revs. per minute

140

Dia. of Screw shaft

as per rule

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

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

If two

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

Length of stern bush

of Tunnel shaft

as per rule

Dia. of Crank shaft journals

as per rule

as fitted

Dia. of Crank pin

5 1/4

Size of Crank webs

3 1/2 x 9 x 10 1/2

of screw

Dia. of screw

Pitch of Screw

No. of Blades

State whether moveable

Total surface

of Feed pumps

one

Diameter of ditto

2"

Stroke

9"

Can one be overhauled while the other is at work

of Bilge pumps

one

Diameter of ditto

2"

Stroke

9"

Can one be overhauled while the other is at work

of Donkey Engines

Sizes of Pumps

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

Engine Room

In Holds, &c.

of Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

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

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

Are they Valves or Cocks

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

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

t pipes are carried through the bunkers

How are they protected

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

the 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

CLERS, &c.—(Letter for record

Manufacturers of Steel

Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

least distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

ness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

centages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

th 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

h of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

erial of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

erial

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

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

itch 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

itch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

PERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

ate of Test

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

IS A DONKEY BOILER FITTED?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

ISAAC J. ABDELA & MITCHELL, LTD.

Isaac J. Abdel & Mitchell

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1918, Nov. 20, Dec 30, 1919 Jan 31, Feb 24, Apr 17, June 6, July 3, Aug 12, Sept 3
During erection on board vessel -- Oct 20, Nov 21, 1920 Jan 29, Feb 3, 25, Apr 3, May 10, 20, 28
Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 10.1.19 Slides June 6, 1919 Covers 6-6-19 Pistons 12.8.19 Rods 30.12.18

Connecting rods 27.2.18 Crank shaft 4805 J.R.W. Thrust shaft 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. 4805 J.R.W. 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

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 Yes If so, state name of vessel Engines 14, 37.8.9, 40

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

These Engines have been built under Special Survey in accordance with Admiralty Specification. The material & workmanship are good.

These engines were put up to public auction last week but were not sold

The amount of Entry Fee ... £ : : When applied for,
Special ... £ 9 : 0 : 2nd June 1920
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 13.12.19

FRI. 13 AUG 1920

Committee's Minute

Assigned

Not for Committee

E. A. Dyer Topp

Engineer Surveyor to Lloyd's Register of Shipping.



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