

## REPORT ON MACHINERY.

No. 38750.

Received at London Office

THU. 22 MAY. 1919

of writing Report

19

When handed in at Local Office

16.5. 1919 Port of Glasgow

in Survey held at Glasgow.

Date, First Survey 14/6/1918 Last Survey 2/4/1919

Book.

on the *Ignis No 928. (H. Class) Is War Appl.*

(Number of Visits 56. Gross 2570

Tons Net 1422

When built 1919

er

Built at Clepston

By whom built Lick &amp; Co. SS No 365

ines made at Glasgow

By whom made McKel &amp; Baster. Ignis No 928 when made 1919

ers made at

By whom made

when made

istered Horse Power

Owners

Port belonging to

Horse Power as per Section 28 331

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

LINES, &amp;c.—Description of Engines

Triple Expansion

No. of Cylinders

3

No. of Cranks 3

of Cylinders

22" x 36" x 59"

Length of Stroke

39

Revs. per minute

Dia. of Screw shaft

as per rule

12.4"

Material of

screw shaft

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

Is

Is the after end of the liner made water tight

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

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

Yes

Length of stern bush 58"

of Tunnel shaft

as per rule 10.7 10.84.

11 1/4"

Dia. of Crank shaft journals

as per rule 11.2 11.39

as fitted 11 3/4"

Dia. of Crank pin

11 3/4"

Size of Crank webs

22 1/2 x 7 1/4"

Dia. of thrust shaft under

of Feed pumps

2

Diameter of ditto

3"

Stroke 24"

Can one be overhauled while the other is at work

Yes

of Bilge pumps

2

Diameter of ditto

3"

Stroke 24"

Can one be overhauled while the other is at work

Yes

of Donkey Engines

SIZES OF PUMPS

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

Engine Room

In Holds, &amp;c.

of Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room &amp; 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

at 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

the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

MILLERS, &amp;c.—(Letter for record

Manufacturers of Steel

Total 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

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

1. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

percentages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

e 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

bottom

bottom

bottom

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

013436-013443-0037



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

*McKerrow & Co.*

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1918 June 14-17-28 July 6-10-24-30 Aug. 6-9-20-22-28 Sept. 4-12-13 Oct. 2-15-18-22-24-29 Nov. 4-8-13-18  
During erection on board vessel - - - 27 Dec 2-6-9-12-16-18-23-27 1919 Jan 8-13-17-20-22-23-28 Feb 5-10-17-19 Mar 6-10-12-17-19-25-31  
Total No. of visits 56.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 18-10-18 Slides 10-3-19 Covers 4-12-18 Pistons 18-10-18 Rods 28-1-19  
Connecting rods 10-3-19 Crank shaft 22-1-19 Thrust shaft 23-1-19 Tunnel shafts 20-11-18 Screw shaft 20-11-18 Propeller 8-11-18  
Stern tube 13-11-18 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. 22-1-19

LLOYD'S 10938

Material of Thrust shaft

Identification Mark on Do. 23-1-19

Material of Tunnel shafts

Identification Marks on Do. 20-11-18

J.E.S.

Material of Screw shafts

Identification Marks on Do. 20-11-18

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.)

These engines have been constructed under special survey in accordance with rules and specification of the Shipping Controller and have been forwarded to Chepstow where they are to be fitted on board.

The amount of Entry Fee ... £ : :  
Special ... £ 27 : 16 :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ : :  
When applied for, 19.  
When received, 28/6/19

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 21 MAY 1919

Assigned Transmit to London

FRI NOV 7 1919

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