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## REPORT ON MACHINERY

No. 5149

Received at London Office

TUE. MAY. 8

Writing Report

7<sup>th</sup> May 1923

When handed in at Local Office

7<sup>th</sup> 5<sup>th</sup> 1923

Port of

MANCHESTER

Survey held at

MANCHESTER

Date, First Survey

3. 5. 23.

Last Survey

5. 5. 1923.

(Number of Visits 3)

Book.

7 on the

T.S.S. 'NOWSHERA'

Tons

Gross 7920

Net 4875

When built 1919.

Built at

Belfast

By whom built

W. &amp; A. Clark &amp; Co. Ltd.

made at

Belfast

By whom made

W. &amp; A. Clark &amp; Co. Ltd.

when made

1919.

made at

ditto

By whom made

ditto

when made

1919.

red Horse Power

740

Owners

British India Steam Navigation Co. Ltd.

Port belonging to

Glasgow

Horse Power as per Section 28

1438

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

VES, &amp;c.—Description of Engines

No. of Cylinders

No. of Cranks

Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule  
as fittedMaterial 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

as per rule  
as fitted

Dia. of Crank shaft journals

as per rule  
as fitted

14.385

Dia. of Crank pin

14.75

Size of Crank webs

22 1/4 x 9

Dia. of thrust shaft under

14.385

Dia. of thrust shaft under

14.385

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

4 - 3 1/2"

Tunnel 1 - 2 1/2"

In Holds, &amp;c. Forward Holds. (Nos 1. 2. 3).

- 3 1/2"

aft Holds. (Nos 4. 5. 6)

6 - 3 1/2"

Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room &amp; size 1 - 3 1/2"

Are the bilge suction pipes fitted with roses

Yes

Are the roses in Engine room always accessible

Yes

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

VES, &amp;c.—(Letter for record

) Manufacturers of Steel

Boiling Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

3. 5 Spring

Area of each valve

14.190

Pressure to which they are adjusted

205-460

Are they fitted with easing gear

Yes

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

Strength of longitudinal joint

rivets  
plate

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  
bottom

Thickness of plates

crown  
bottom

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

Stays

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. 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

Lloyd's Register

F0065-00048



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IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

4 Top and bottom & nuts, 4 bottom and nuts, 4 main bearing nuts, 6 coupling nuts, spare valves for air, feed and high pumps, 1 slide valve spindle, 1 air pump nut, 4 crosshead brasses, bottom and brasses, 1 main bearing bush, 1 running strap, 1 propeller, 1 propeller pin, 2 propeller blades and 9 studs & nuts for nuts.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - }  
{ During erection on board vessel - - - }  
Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders

Slides

Covers

Pistons

Rods

Connecting rods

Crank shaft

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 5.5.23.

Thickness of adjusting washers 7/16 5/16 5/16

Identification Mark on

Material of Crank shaft

Identification Mark on Do. 17.9.18

Material of Thrust shaft

Identification Mark on

Material of Tunnel shafts

Identification Marks on Do.

Material of Screw shafts

Identification Marks on

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

If so, state name of vessel

Is this machinery duplicate of a previous case

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

The machinery of this vessel is now over, is in a good and efficient condition, and in my opinion I have received L.C. 4.23 as per British Standard dated 28<sup>th</sup> April 1923.

Certificate (if required) to be sent to

The amount of Entry Fee ... £ ✓ : : When applied for, 19  
Special ... £ ✓ : :  
Donkey Boiler Fee ... £ ✓ : : When received, 19  
Travelling Expenses (if any) £ ✓ : :

Committee's Minute

Assigned

FRI. MAY, 11 1923

M. Lane

Engineer Surveyor to Lloyd's Register



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