

## REPORT ON MACHINERY.

No. 33832

Received at London Office

THU. APR. 16. 1914

Date of writing Report

19

When handed in at Local Office

19

Port of

Glasgow

No. in Survey held at  
Reg. Book.

Coatbridge

Date, First Survey

Last Survey 27/3/14

19

on the

Master

Built at Dundee

By whom built

N. G. Schooneboomweg De. Merwede v/n Van der Co

When built

1914

Engines made at

Coatbridge

By whom made

Lidgerwood &amp; Co (415)

when made

1914

Boilers made at

Glasgow

By whom made

D. Rowan &amp; Co (205)

when made

1914

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

99

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &amp;c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

14" 22 1/2" 37"

Length of Stroke

24"

Revs. per minute

Dia. of Screw shaft

as per rule 7 1/2"

Material of

screw shaft

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

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

Length of stern bush

3'-0"

Dia. of Tunnel shaft

as per rule 6'-2 1/2"

Dia. of Crank shaft journals

as per rule 7 1/4"

Dia. of Crank pin

7 1/4"

Size of Crank webs

4 1/2" 26 1/2"

Dia. of thrust shaft under

collars

7 1/4"

Dia. of screw

9'-6"

Pitch of Screw

10-0

No. of Blades

4

State whether moveable

no

Total surface

32 ft

No. of Feed pumps

2

Diameter of ditto

2 3/4"

Stroke

12"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

2 3/4"

Stroke

12"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

Sizes of Pumps

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

In Engine Room

In Holds, &amp;c.

No. of Bilge Injections

1

sizes

3 1/2"

Connected to condenser, or to circulating pump

no

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

Are all 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

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

yes

Are they Valves or Cocks

yes

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

yes

Are the Discharge Pipes above or below the deep water line

yes

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

yes

Are the Blow Off Cocks fitted with a spigot and brass covering plate

yes

What pipes are carried through the bunkers

yes

How are they protected

yes

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

yes

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

yes

Dates of examination of completion of fitting of Sea Connections

yes

of Stern Tube

yes

Screw shaft and Propeller

yes

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

yes

worked from

yes

BOILERS, &amp;c.—(Letter for record)

Manufacturers of Steel

Total Heating Surface of Boilers

yes

Is Forced Draft fitted

yes

No. and Description of Boilers

No. of Certificate

12612

Working Pressure

Tested by hydraulic pressure to

Date of test

No. and Description of Safety Valves to

Can each boiler be worked separately

yes

Area of fire grate in each boiler

yes

Are they fitted with easing gear

yes

each boiler

yes

Area of each valve

yes

Pressure to which they are adjusted

yes

Material of shell plates

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

yes

Mean dia. of boilers

yes

Length

yes

Material of shell plates

yes

Thickness

yes

Range of tensile strength

yes

Are the shell plates welded or flanged

yes

Descrip. of riveting: cir. seams

yes

long. seams

yes

Diameter of rivet holes in long. seams

yes

Pitch of rivets

yes

Lap of plates or width of butt straps

yes

Per centages of strength of longitudinal joint

yes

Working pressure of shell by rules

yes

Size of manhole in shell

yes

Size of compensating ring

yes

No. and Description of Furnaces in each boiler

yes

Material

yes

Outside diameter

yes

Length of plain part

yes

Thickness of plates

yes

Description of longitudinal joint

yes

No. of strengthening rings

yes

Working pressure of furnace by the rules

yes

Combustion chamber plates: Material

yes

Thickness: Sides

yes

Back

yes

Top

yes

Working pressure by rules

yes

Pitch of stays to ditto: Sides

yes

Back

yes

If stays are fitted with nuts or riveted heads

yes

Working pressure by rules

yes

Material of stays

yes

Diameter at smallest part

yes

Area supported by each stay

yes

Working pressure by rules

End plates in steam space:

yes

Material

yes

Pitch of stays

yes

How are stays secured

yes

Working pressure by rules

yes

Material of stays

yes

Diameter at smallest part

yes

Area supported by each stay

yes

Working pressure by rules

yes

Material of Front plates at bottom

yes

Thickness

yes

Material of Lower back plate

yes

Thickness

yes

Greatest pitch of stays

yes

Working pressure of plate by rules

yes

Mean pitch of stays

yes

Diameter of tubes

yes

Pitch of tubes

yes

Material of tube plates

yes

Thickness: Front

yes

Back

yes

Mean pitch of stays

yes

Pitch across wide water spaces

yes

Working pressures by rules

yes

Girders to Chamber tops: Material

yes

Depth and

thickness of girder at centre

yes

Length as per rule

yes

Distance apart

yes

Number and pitch of stays in each

yes

Working pressure by rules

yes

Superheater or Steam chest; how connected to boiler

yes

Can the superheater be shut off and the boiler worked

yes

separately

yes

Diameter

yes

Length

yes

Thickness of shell plates

yes

Description of longitudinal joint

yes

Diam. of rivet

yes

holes

yes

Pitch of rivets

yes

Working pressure of shell by rules

yes

Diameter of flue

yes

Material of flue plates

yes

Thickness

yes

If stiffened with rings

yes

Distance between rings

yes

Working pressure by rules

yes

End plates: Thickness

yes

How stayed

yes

Working pressure of end plates

yes

Area of safety valves to superheater

yes

Are they fitted with easing gear

yes

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VERTICAL DONKEY BOILER— Manufacturers of Steel

No.	Description				
Made at	By whom made		When made	Where fixed	
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Safety
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted		Date of adjustment
If fitted with easing gear	If steam from main boilers can enter the donkey boiler		Dia. of donkey boiler	Length	
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams		
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Rivets Plates
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays	
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint	
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by		
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied :—

The foregoing is a correct description,

For Lidgetwood Limited Manufacturer. *R. Sneddon*

Dates of Survey while building	During progress of work in shops --	1913. Dec. 8-19. 1914- Jan'y 13-23. Feb'y 2-17. Mar 2-12-17. 23-27.
	During erection on board vessel ---	11.
	Total No. of visits	

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—		Cylinders 2/2/14	Slides 2/3/14	Covers 2/3/14	Pistons 2/3/14	Rods 2/3/14
Connecting rods 2/3/14	Crank shaft <i>stul</i>	Thrust shaft 17/3/14	Tunnel shafts —	Screw shaft 17/3/14	Propeller 17/3/14	
Stern tube 23/3/14	Steam pipes tested ✓	Engine and boiler seatings ✓	Engines holding down bolts			
Completion of pumping arrangements ✓	Boilers fixed ✓	Engines tried under steam				
Main boiler safety valves adjusted ✓	Thickness of adjusting washers	✓				
Material of Crank shaft <i>stul</i>	Identification Mark on Do. <div>3612 2/2/14</div>	Material of Thrust shaft <i>stul</i>	Identification Mark on Do. <div>3612 2/2/14</div>			
Material of Tunnel shafts ✓	Identification Marks on Do. ✓	Material of Screw shafts <i>iron</i>	Identification Marks on Do. <div>3612 2/2/14</div>			
Material of Steam Pipes —	Test pressure	✓				

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

*These engines have been built under special survey, the material and workmanship are of good description.*  
*This machinery has now been forwarded to Dundee where it will be fitted on board the vessel.*

The amount of Entry Fee .. £ 1 :	When applied for,	15/4/14.
Special <i>3 1/2 Dundee</i> .. £ 9. 18 :	When received,	20/5/14.
Donkey Boiler Fee .. £ :		
Travelling Expenses (if any) £ :		

Committee's Minute

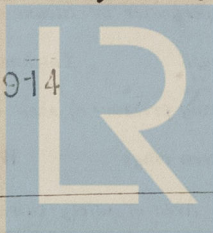
GLASGOW

15 APR. 1914

FRI. MAY. 1-1914

Assigned *Deferred for compl.*

*A. McKeand*  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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