

Rpt. 4.

REPORT ON MACHINERY.

No. 23926

Date of writing Report

19

When handed in at Local Office

10th July 1911

Port of Hull

Received at London Office

10th July 1911

No. in Survey held at

Hull Selby

Date, First Survey

Dec. 20th

Last Survey

6th July

1911

Reg. Book.

223 on the

Shel So. K. Weigelia

(Number of Visits)

33

Gross

262

Net

103.

Master

Built at

Selby

By whom built

Cochrane Sons

When built

1911

Engines made at

By whom made

Messrs

when made

1911

Boilers made at

Hull

By whom made

Charles D. Holmes & Co

when made

1911

Registered Horse Power

Owners

Southern Steam Trawling Co. Ltd

Port belonging to

Milford

Nom. Horse Power as per Section 28

46

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

12" - 21" - 34"

Length of Stroke

24"

Revs. per minute

111

Dia. of Screw shaft

as per rule 7.04

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 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

—

If two

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

Length of stern bush

36"

Dia. of Tunnel shaft

as per rule 6.26

Dia. of Crank shaft journals

as per rule 6.57

Dia. of Crank pin

6.875

Size of Crank webs

13" x 4 1/2"

Dia. of thrust shaft under

collars

6.875

Pitch of Screw

8" - 7 1/2"

No. of Blades

4

State whether moveable

No

Total surface

27.5 sq

No. of Feed pumps

1

Diameter of ditto

2 3/8"

Stroke

14"

Can one be overhauled while the other is at work

No. of Bilge pumps

1

Diameter of ditto

2 3/8"

Stroke

14"

Can one be overhauled while the other is at work

No. of Donkey Engines

One

Sizes of Pumps

5" - 3 1/2" - 6"

Duplex

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

In Engine Room

Two 2", one 3", one 2 1/2"

In Holds, &c.

One 2" ejector suction

No. of Bilge Injections

1

sizes

3"

Connected to condenser, or to circulating pump

pmp

Is a separate Donkey Suction fitted in Engine room & size

Yes 2 1/2"

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

None

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

Yes

Are they Valves or Cocks

Both

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

above

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

hold suction

How are they protected

wood casing

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

13.5.11

of Stern Tube

13.5.11

Screw shaft and Propeller

13.5.11

Is the Screw Shaft Tunnel watertight

None

Is it fitted with a watertight door

—

worked from

—

BOILERS, &c.—(Letter for record

✓)

Manufacturers of Steel

See separate report on boiler

Total Heating Surface of Boilers

1384 sq

Is Forced Draft fitted

No

No. and Description of Boilers

1 Cyl. Hull 8. Ended

Working Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test

30.5.11

No. of Certificate

8146

Can each boiler be worked separately

—

Area of fire grate in each boiler

42 sq

No. and Description of Safety Valves to

each boiler

Two spring

Area of each valve

3.970 sq

Pressure to which they are adjusted

185 lbs

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

6 1/2"

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

riots

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

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

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with rivets or riveted heads

Working pressure by rules

Material of stays

Diameter 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

Diameter 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

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Lloyd's Register

Foundation

W 765-0029

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No.	Description	When made	Where fixed
Made at	By whom made	No. of Certificate	Fire grate area
Working pressure	tested by hydraulic pressure to	Date of test	Description of Safety
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted
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
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates
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:— Two top and bottom end connecting rod bolts and nuts, two main bearing bolts and nuts, one set coupling bolts and nuts, one set each air feed bilge pump valves, one main and one donkey check valve, iron various sizes, and a quantity assorted bolts nuts, junk ring studs.

The foregoing is a correct description,
p. pro CHARLES D. HOLMES & Co. LTD. Manufacturer.

Charles D. Holmes DIRECTOR
Dates of Survey: During progress of work in shops— 1910:— Dec 20. 1911:— Jan 11. 13. 25. May 2. 7. 13. 28. Apr 6. 10. 21. 26. May 3. 8. 9. 10. 13. 1. 1912:— May 18. 20. 29. 31. Jun 7. 16. 17. 20. 21. 24. 26. 28. 30. July 4. 6.
Is the approved plan of main boiler forwarded herewith *Yes*

Dates of Examination of principal parts—Cylinders 10. 4. 11 Slides 31. 5. 11 Covers 7. 6. 11 Pistons 8. 5. 11 Rods 15. 5. 11
Connecting rods 6. 4. 11 Crank shaft 26. 4. 11 Thrust shaft 13. 3. 11 Tunnel shafts Screw shaft 10. 5. 11 Propeller 10. 5. 11
Stern tube 9. 5. 11 Steam pipes tested 24. 6. 11 Engine and boiler seatings 29. 5. 11 Engines holding down bolts 4. 7. 11
Completion of pumping arrangements 6. 7. 11 Boilers fixed 4. 7. 11 Engines tried under steam 6. 7. 11
Main boiler safety valves adjusted 4. 7. 11 Thickness of adjusting washers 3/8" 3/8"
Material of Crank shaft S Identification Mark on Do. 26. 4. 11 Material of Thrust shaft S Identification Mark on Do. 13. 3. 11
Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts I Identification Marks on Do. 10. 5. 11
Material of Steam Pipes Solid drawn copper Test pressure 400 lbs per sq. inch

General Remarks (State quality of workmanship, opinions as to class, &c. The engines of this vessel have been constructed under special survey in accordance with the Rules. The materials and workmanship are good. The boilers (as per separate report) with the engines, secured on board and tested under steam. They are now in good order, and safe working condition and respectfully submitted as being eligible in my opinion to be classed with the notation of *L.M.C. 7. 11* in the Register Book

It is submitted that
this vessel is eligible for
THE RECORD + L.M.C. 7. 11.

JWD
13/7/11

The amount of Entry Fee .. £ 1 : : : When applied for, 10. 7. 1911
Special .. £ 6 : 16 : : :
Donkey Boiler Fee .. £ : : : When received, 1. 8. 11
Travelling Expenses (if any) £ : 8 : 2 : : :
Committee's Minute
Assigned

FRI. JUL 14 1911

MACHINERY CERTIFICATE
WRITTEN.



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