

Rpt. 4.

Hall No. 26974
REPORT ON MACHINERY.No. 8850
THU. JUN. 12. 1913

Date of writing Report

19

When handed in at Local Office

10/6/13 Port of

Received at London Office

Grimsby

No. in Survey held at
Reg. Book.

33 Supp-on the steel tug "Salmon."

Date, First Survey Aug 8/12

Last Survey

1913

(Number of Visits 26)

Master

Built at New Holland By whom built

N. H. Warren

Engines made at

Grimsby

By whom made

R. C. Walker

when made

1913

Boilers made at

Glasgow

By whom made

A. W. Dalglish

when made

1912

Registered Horse Power

Owners

Thomas Milward

Port belonging to

Swansea.

Nom. Horse Power as per Section 28

30

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

no

ENGINES, &c.—Description of Engines

Compound Inverted

No. of Cylinders

2

No. of Cranks

2

Dia. of Cylinders

12" x 24"

Length of Stroke

18"

Revs. per minute

Dia. of Screw shaft

as per rule 5.62

Material of

Steel

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

no

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

yes

If two

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

no

Length of stern bush

25"

Dia. of Tunnel shaft

as per rule 4.98

Dia. of Crank shaft journals

as per rule 5.23

Dia. of Crank pin

5 1/2"

Size of Crank webs

3 1/4 x 7 1/2"

Dia. of thrust shaft under

collars

5 1/2"

Dia. of screw

6-4"

Pitch of Screw

10'-6"

No. of Blades

4

State whether moveable

yes

Total surface

20"

No. of Feed pumps

1

Diameter of ditto

2 1/4"

Stroke

9"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

1

Diameter of ditto

2 1/4"

Stroke

9"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

1

Sizes of Pumps

5 1/4 x 3 x 6"

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

In Engine Room 4-2" 2 forward 2 aft

In Holds, &c. One 2" to forward bilge One 2" to

mid bilge one 2" to after bilge one 2" to fore castle, one 2" to after cabin

No. of Bilge Injections

1

sizes

3"

Connected to condenser, or to circulating pump

condens

Is a separate Donkey Suction fitted in Engine room & size

yes-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

To fore castle

How are they protected Wood casing iron sheathed

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

6. 6. 13.

of Stern Tube

6. 6. 13.

Screw shaft and Propeller

6. 6. 13.

Is the Screw Shaft Tunnel watertight

no

Is it fitted with a watertight door

yes

worked from

yes

BOILERS, &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

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

each 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

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

rivets

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 nuts 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

If 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 1599-0026

VERTICAL DONKEY BOILER— *Manufacturers of Steel*

No.	Description		When made	Where fixed
Made at	By whom made			
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area
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
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: Two connecting rod each top, bottom end bolts one
Two main bearing bolts nuts. 1 set of coupling bolts. one set of feed & bilge pump
valves. one set air pump valves. Check valve. one propeller blade. a quantity
of assorted bolt nuts. Iron of various sizes.

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
Sirmahj, 1912 - Aug 8. 22		18 visits		Hull: - Nov 14 Dec. Jan 6. July 3 - 8. 22. 30		26
Sept 4. 13. 25 - Oct 3. 17				Nov 1. 5. 12. 26 - 30		
Nov 1. 5. 12. 26 - 30				Dec 9. 14. 27		
Dec 9. 14. 27				1913 Jan 7. 25 - 31		

Is the approved plan of main boiler forwarded herewith yes

(Total No. of tests) " " " donkey " "

Dates of Examination of principal parts—Cylinders *H Sep 25*
L Sep 13 Slides *Oct 3/12* Covers *Nov 26* Pistons *Oct 3/12* Rods *Dec 14*

Connecting rods *Nov 12* Crank shaft *Sep 16* Thrust shaft *Jan 25/13* Tunnel shafts *Nov 12* Screw shaft *Nov 12* Propeller *Nov 5*

Stern tube *Oct 17* Steam pipes tested *8.7.13.* Engine and boiler seatings *6.6.13.* Engines holding down bolts *22.7.13.*

Completion of pumping arrangements *30.9.13.* Boilers fixed *22.7.13.* Engines tried under steam *6.10.13.*

Main boiler safety valves adjusted *6.10.13.* Thickness of adjusting washers *PV 5/16" PV 9/32"*

Material of Crank shaft *Steel* Identification Mark on Do. *N° 566 C.M. 25-1-13* Material of Thrust shaft *Steel* Identification Mark on Do. *N° 568 C.M. 25-1-13*

Material of Tunnel shafts *Steel* Identification Marks on Do. *N° 590 C.M. 12-11-13* Material of Screw shafts *Steel* Identification Marks on Do. *N° 588 C.M. 12-11-13*

Material of Steam Pipes *Copper solid drawn.* Test pressure *230 lbs. hyd. pressure.*

Material of Steam Pipes *Copper solid drawn. Test pressure 200 lbs.*

General Remarks (State quality of workmanship, opinions as to class, &c. This machinery has been built under special survey and the material and workmanship is good. and with the Boiler secured on board and tested under steam it is now in good working order, and respectfully submitted as being eligible to be classed with the notation of +Lmc 11.13. in the Register book".

The engineers that built the engines of this vessel are now in liquidation and the fitting of same was completed by Messrs. J. & H. H. Grass, Barton-on-Humber.

It is submitted that
this vessel is eligible for
THE RECORD. + L.M.C 11.13.

The amount of Entry Fee .. £	1	:	-	:	When applied for,	Mar 27 1913
Special £	5	:	18	:	When received,	Apr 2 1913
Donkey Boiler Fee £		:		:		
Travelling Expenses (if any) £		:		:		

March. J. G. Mackillop.
Engineer Surveyor to Lloyd's Register of British & Foreign Ships.

Committee's Minute

TUE. DEC. 9-1913

Assigned

June 11. 13

MACHINERY CERTIFICATE
MOTTEN.

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