

REPORT ON MACHINERY.

No. 78516

Received at London Office

12 NOV 1924

Date of writing Report

19

When handed in at Local Office

8/11/1924 Port of

NEWCASTLE-ON-TYNE

No. in Survey held at
Reg. Book.

South Shields

Date, First Survey

2nd June/24

Last Survey

5th Nov 1924

on the

Hull & Steamer

ABEILLE 20

(Number of Visits 22.)

Gross
Tons
Net
When built

Master

Built at S. Shields

By whom built J. P. Remoldson & Co

Engines made at

S. Shields

By whom made

J. P. Remoldson & Co Ltd when made 1924. 9

Boilers made at

S. Sunderland

By whom made

George Clark & Co Ltd when made 1924.

Registered Horse Power

83

Owners

Cie. de Rouen & de Saint-Lazare

Port belonging to

Havre

Nom. Horse Power as per Section 28

83

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

no

ENGINES, &c.—Description of Engines Triple Exp^d Condensing

No. of Cylinders

3

No. of Cranks 3

Dia. of Cylinders

12 1/4" 21" 33"

Length of Stroke

24"

Revs. per minute

120

Dia. of Screw shaft

as per rule 7 1/4"

Material of

S.I.

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 no If the liner is in more than one length are the joints burned

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

no liners

Length of stern bush 2'-6"

Dia. of Funnel shaft

as per rule 6.3"

Dia. of Crank shaft journals

as per rule 6.61"

Dia. of Crank pin

6 3/4"

Size of Crank webs

12 1/2" 4 1/2"

Dia. of thrust shaft under

collars

6 3/4"

Dia. of screw

8'-8"

Pitch of Screw

11'-6"

No. of Blades

4

State whether moveable

no

Total surface

22'8"

No. of Feed pumps

2

Diameter of ditto

2 1/4"

Stroke

12"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

2 5/8"

Stroke

12"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

2

Sizes of Pumps

4 1/2" x 3" x 6"

6" x 7 1/2" x 6"

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

In Engine Room

two, 2" diam

In Holds, &c.

one Ford Hold, one Ford Tank,

one apt Hold, one apt Tank, all 2" diam

No. of Bilge Injections

1 sizes 3 1/4"

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

yes 2" dia

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

Main Steam

aux. steam

aux. fuel

sterning

How are they protected

steel 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

Is the Screw Shaft Tunnel watertight

none

Is it fitted with a watertight door

worked from

No. and Description of Boilers

one single ended

Working Pressure

180 lbs

Tested by hydraulic pressure to

Date of test

No. of Certificate

3901

Can each boiler be worked separately

both

Area of fire grate in each boiler

45.2 sq

No. and Description of Safety Valves to

each boiler

two direct spring

Area of each valve

11.06"

Pressure to which they are adjusted

182 lbs

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

14"

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

Length of plain part

top

Thickness of plates

crown

Description of longitudinal joint

bottom

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

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

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

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

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted

Is Easing Gear fitted

Date of Test

Diameter of Safety Valve

Is Easing Gear fitted

Date of Test

Diameter of Safety Valve

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Is Easing Gear fitted

Date of Test

Diameter of Safety Valve

Is Easing Gear fitted

011586-011594-0215

IS A DONKEY BOILER FITTED?

no.

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 2 Con. Rod. bottom end bolts & nuts, 2 Con. Rod top end bolts & nuts, 2 main bearing bolts, one set coupling bolts, one set of fuel & bilge pump valves & piston bolts, 1/2 cwt assorted iron, 36 assorted bolts & nuts, 2 fuel donkey pump valves, 1 spare boiler pressure gauge, one spare tail end shaft & nut, one spare stern bush of C.I., one spare propeller*, 10 plain boiler tubes, 30 condenser tubes, 60 condenser ferrules, 2 boiler stay tubes. *Note: Spare propeller now stored on shore.

The foregoing is a correct description,

J. P. RENNOLDSON & SONS LTD

Charles Ross

DIRECTOR

Manufacturer.

Dates of Survey while building { During progress of work in shops - June 25, 10, 18, 19, July 1, 28, 31, Aug 13, Sept 5, 9. During erection on board vessel - Sept 19, Oct 13, 23, 31, Nov 5. Total No. of visits 22

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders June 16 Slides June 19 Covers June 19 Pistons June 19 Rods Aug 13 Connecting rods Aug 13 Crank shaft July 1 Thrust shaft July 1 Tunnel shafts July 1 Screw shaft Aug 13 Propeller Sept 9 Stern tube Sept 7 & 9 Steam pipes tested Oct 20, 23 & 31 Engine and boiler seatings Sept 9 Engines holding down bolts Sept 9 Completion of pumping arrangements Oct 31 Boilers fixed Sept 19 Engines tried under steam Nov 5 Completion of fitting sea connections Sept 9 Stern tube Sept 5, 9 Screw shaft and propeller Sept 9 & Oct 9 Main boiler safety valves adjusted Nov 5 Thickness of adjusting washers 9/16" Material of Crank shaft M.S. Identification Mark on Do. 6885N Material of Thrust shaft I.S. Identification Mark on Do. 1004 Material of Tunnel shafts S.I. Identification Marks on Do. 6885N Material of Screw shafts S.I. Identification Marks on Do. 6885N Material of Steam Pipes Copper Test pressure 360 lbs/sq. in.

Is an installation fitted for burning oil fuel no ✓ 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 yes ✓ If so, state name of vessel "Abilla 3."

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel, has been built under special survey, the materials and workmanship are of good quality, it has been securely fitted on board and satisfactorily tried under full steam, and is, in my opinion, eligible for Record L.M.C. 11.24. in the Register Book.

Report on Boiler & Fitting Reports are forwarded herewith.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 11.24.

J.W.D. 13/11/24

L.R. Horne

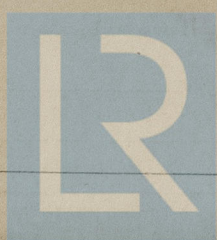
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 2 : Special ... £ 10 : Donkey Boiler Fee ... £ Travelling Expenses (if any) £

Committee's Minute PRI. 14 NOV 1924

Assigned + L.M.C. 11.24

CERTIFICATE WRITTEN



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