

Received at London Office WFO. 13 AUG. 1924

Date of writing Report

When handed in at Local Office 12 AUG 1924

Port of

Sunderland

No. in Survey held at

Sunderland

Date, First Survey

June 23

Last Survey

6th Aug 1924

Reg. Book.

on the new steel S/S "MATCHING"

(Number of Visits)

29

Gross

1321

Net

715

Master

Built at Sunderland

By whom built

J. Brown & Sons Ltd (S/S No. 175) When built 1924

Engines made at

Sunderland

By whom made

J. Dickinson & Sons Ltd (No. 874) when made 1924

Boilers made at

Sunderland

By whom made

J. Dickinson & Sons Ltd (No. 874) when made 1924

Registered Horse Power

Owners

Stephenson Clarke & Co

Port belonging to

London

Nom. Horse Power as per Section 28

180

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

19"-31"-51"

Length of Stroke

36

Revs. per minute

75

Dia. of Screw shaft

as per rule 10.98"

Material of screw shaft

Steel

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

-

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

3'-9"

Body of Thrust

as per rule 9.58"

Dia. of Crank shaft journals

as per rule 10.06"

Dia. of Crank pin

10 1/8"

Size of Crank webs

Patent

Dia. of thrust shaft under

collars 10 1/8"

collars 10 1/8"

Dia. of screw

13'-9"

Pitch of Screw

14'-0"

No. of Blades

4

State whether moveable

no

Total surface

58 sq ft

No. of Feed pumps

2

Diameter of ditto

2 3/4"

Stroke

18"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

3 1/2"

Stroke

18"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

2

Sizes of Pumps

9 & 10 x 10

5 1/2 x 3 1/2 x 5

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

In Engine Room

3 @ 2 1/2"

In Holds, &c.

Fore hold 2 @ 2 1/2"

After hold 2 @ 2 1/2"

No. of Bilge Injections

1

sizes 4"

Connected to condenser, or to circulating pump

6"

Is a separate Donkey Suction fitted in Engine room & size

yes 3 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

under 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

17-7-24

of Stern Tube

21-7-24

Screw shaft and Propeller

21-7-24

Is the Screw Shaft Tunnel watertight

none

Is it fitted with a watertight door

machinery

worked from

-

BOILERS, &c.—(Letter for record (5))

Manufacturers of Steel

John Spencer & Sons Ltd

Total Heating Surface of Boilers

29200 sq ft

Forced Draft fitted

no

No. and Description of Boilers

one single ended marine

Working Pressure

180

Tested by hydraulic pressure to

320

Date of test

26-5-24

No. of Certificate

3882

Can each boiler be worked separately

-

Area of fire grate in each boiler

77 sq ft

No. and Description of Safety Valves to

each boiler

two direct spring

Area of each valve

110"

Pressure to which they are adjusted

185

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

2'-6"

Mean dia. of boilers

17'-6"

Length

11'-0"

Material of shell plates

steel

Thickness

1 1/2"

Range of tensile strength

29 1/2-33 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

DR

long. seams

DBS. TR

Diameter of rivet holes in long. seams

1 7/8"

Pitch of rivets

9 1/4"

Lap of plates or width of butt straps

21 1/8"

Per centages of strength of longitudinal joint

91.18

Working pressure of shell by rules

180

Size of manhole in shell

16' x 12"

Size of compensating ring

flanged

No. and Description of Furnaces in each boiler

4 Deighton

Material

steel

Outside diameter

3'-11"

Length of plain part

top 9"

bottom 9"

Description of longitudinal joint

welded

No. of strengthening rings

-

Working pressure of furnace by the rules

185

Combustion chamber plates: Material

steel

Thickness: Sides

1 1/4"

Back

1 1/4"

Top

1 1/4"

Bottom

1 1/4"

Working pressure by rules

182

Pitch of stays to ditto: Sides

10 1/4" x 8 3/4"

Back

10" x 9"

Top

10" x 9"

If stays are fitted with nuts or riveted heads

nut & washer

Working pressure by rules

201

End plates in steam space

-

Material of stays

steel

Diameter at smallest part

2'-0 3/8"

Area supported by each stay

900"

Working pressure by rules

201

End plates in steam space

-

Material of stays

steel

Thickness

1 3/8"

Pitch of stays

22 1/2" x 17 1/4"

How are stays secured

nut & washer

Working pressure by rules

180

Material of Front plates at bottom

steel

Diameter at smallest part

6'-7 1/2"

Area supported by each stay

403

Working pressure by rules

183

Material of Lower back plate

steel

Thickness

7/8"

Material of Lower back plate

steel

Thickness

7/8"

Greatest pitch of stays

13 3/4" x 9"

Working pressure of plate by rules

232

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2" x 4 1/2"

Material of tube plates

steel

Thickness: Front

1 1/4" x 5/8"

Back

7/8"

Mean pitch of stays

9 x 11 1/2"

Pitch across wide water spaces

13 1/4" x 8 1/2"

Working pressures by rules

229

Girders to Chamber tops: Material

steel

Depth and

thickness of girder at centre

2 @ 7 1/2" x 1 1/8"

Length as per rule

2'-8 1/2"

Distance apart

10"

Number and pitch of stays in each

3 @ 9"

Working pressure by rules

190

Superheater or Steam chest; how connected to boiler

none

Can the superheater, &c. shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivets

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened

IS A DONKEY BOILER FITTED? yes

If so, is a report now forwarded? yes

SPARE GEAR. State the articles supplied:— Two connecting rod top and bottom end bolts and nuts. Two main bearing bolts. one set of coupling bolts. one set of feed and bilge pump valves. iron and bolts of various size. one propeller

The foregoing is a correct description,

For
John Dickinson & Sons, Limited

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1923. June 15 July 6 2224 24 Feb. 6. 1829 Mar. 4. 28 Apr. 15 May 7. 22 23 26 28
{ During erection on board vessel - - - } June 12, 15, 16, 17, 21, 22, 25 28 Aug. 5, 6
Total No. of visits 29

Is the approved plan of main boiler forwarded herewith yes

" " " donkey " " " yes

Dates of Examination of principal parts—Cylinders 28-3-24 Slides 28-5-24 Cores 15-4-24 Pistons 7-5-24 Rods 7-5-24
Connecting rods 7-5-24 Crank shaft 21-3-24 Thrust shaft 12-6-24 Tunnel shafts none Screw shaft 12-7-24 Propeller 12-6-24
Stern tube 12-7-24 Steam pipes tested 15 & 22-7-24 Engines and boiler seatings 17-7-24 Engines holding down bolts 28-7-24
Completion of pumping arrangements 6-8-24 Boilers fixed 25-7-24 Engines tried under steam 28-7-24

Main boiler safety valves adjusted 28-7-24 Thickness of adjusting washers both 7/16"

Material of Crank shaft cast steel Identification Mark on Do. LL0105 N26633 Material of Thrust shaft 1.8 steel Identification Mark on Do. LL0105 N26813
Material of Tunnel shafts cast steel Identification Marks on Do. L.C.D. 213-24 Material of Screw shafts 1.8 steel Identification Marks on Do. L.C.D. 213-24

Material of Steam Pipes solid drawn copper Test pressure 400 lbs per sq"

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 -

Is this machinery duplicate of a previous case no If so, state name of vessel -

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

The materials and workmanship are good.

The machinery has been constructed under special survey and is eligible in my opinion for classification and the record +LMC 8.24.

It is submitted that
this vessel is eligible for
THE RECORD. +LMC 8.24 C.L.

14/8/24

ARK

The amount of Entry Fee ... £ 3 :
Special ... £ 45 :
Donkey Boiler Fee ... £ :
Travelling Expenses (if any). £ :
When applied for, 7 AUG 1924
When received, 8 AUG 1924

Committee's Minute FRI 15 AUG 1924

Assigned

+LMC 8.24 C.L.

L. Davis
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping

Rpt. 5b.

Date of writing

No. in Sur Reg. Book.

on the

Master

Boiler made at

Owners

VERTICAL

Made at Ann

tested by hydraulic

No. of safety valve

enter the donkey b

strength 28/32 tons

Lap of plating 4

Radius of do. 3-

Thickness of furn

plates 1/2

Thickness of water

Dates of Survey while building { During work on board building }
Total

GENERAL

This boiler

Approved

SUNDE

and its

Survey Fee

Travelling Exp

Committee's

Assigned



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