

## REPORT ON MACHINERY.

No. 15426

Date of writing Report 28<sup>th</sup> November 1917

When handed in at Local Office

29/11/17

Port of

Received at London Office

5-DEC 1917

No. in Survey held at W. Hartlepool

Reg. Book.

Date, First Survey 17<sup>th</sup> July 1916Last Survey 20<sup>th</sup> Nov 1917

(Number of Visits)

192

on the Steel Screw Steamer (R.F.A.) "Montenol" (W. Gray &amp; Co's SS No. 887)

Master G.P. Wilkinson

Built at

W. Hartlepool

By whom built

W. Gray &amp; Co., Ltd.

Engines made at

W. Hartlepool

By whom made

Central Marine Engine Works

Boilers made at

W. Hartlepool

By whom made

Central Marine Engine Works

Registered Horse Power 545

Owners

Admiralty

when made 1917

when made 1917

Gross 2646.37

Net 1060.98

When built 11-1917

Nom. Horse Power as per Section 28 545

Is Refrigerating Machinery fitted for cargo purposes

No

Port belonging to

London

ENGINES, &amp;c.—Description of Engines

Triple Expansion

No. of Cylinders three (3)

No. of Cranks 3

Cylinders 26", 42½", 70"

Length of Stroke 45"

Revs. per minute 94

Dia. of Screw shaft

as per rule 13.88

Material of

Screw shaft

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

Yes

propeller boss

Yes

If the liner does not fit tightly at the part

the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

Yes

If two

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

Yes

Length of stern bush 62"

Tunnel shaft

as per rule 13.18

as fitted 13.88

Dia. of Crank shaft journals

as per rule 13.84

as fitted 14.8

Dia. of Crank pin 14.8

Size of Crank webs 21.5" x 8.5"

Dia. of thrust shaft under

Feed pumps 2

Diameter of ditto 4.2"

Stroke 28"

Can one be overhauled while the other is at work

Yes

Bilge pumps 2

Diameter of ditto 4.2"

Stroke 28"

Can one be overhauled while the other is at work

Yes

Donkey Engines 3

Sizes of Pumps

2 Single - 13½" cpl. 10" pump, 24" stroke

1 duplex - 6" - 7" - 7"

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

In Room 3, 3½"; in stokehold 2, 3½"; in tunnel (after peak tank), one, 3"; in after peak tank, one, 4"; connected to for ballast

for 4" cofferdam 2, 4"; connected to steam ejectors (3), in for pump room one, 3"; in after pump room 2, 3"; 4" in after cofferdam 2, 3"

Bilge Injections 2

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

Yes, 3½"

Are 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

connections with the sea direct on the skin of the ship

Yes

Are they Valves or Cocks

Both

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

Below

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

How are they protected

Yes

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

Yes

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

Yes

Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

No

worked from

RS, &amp;c.—(Letter for record S.)

Manufacturers of Steel John Spencer &amp; Sons, Ltd.

Heating Surface of Boilers 8466 sq. ft. Is Forced Draft fitted

Yes

No. and Description of Boilers three (3); Single-ended

Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 30/3/17

No. of Certificate 3454

boiler be worked separately

Yes

Area of fire grate in each boiler oil fuel - no plates fitted

No. and Description of Safety Valves to

2, double spring

Area of each valve 12.56 sq. in. Pressure to which they are adjusted 205 lbs.

Are they fitted with easing gear

Yes

Distance between boilers or uptakes and bunkers or woodwork 24"

Mean dia. of boilers 15.9"

Length 11.9"

Material of shell plates Steel

Range of tensile strength 27/30 tons

Are the shell plates welded or flanged both

Descrip. of riveting: cir. seams 3/16, lap

3/16, double straps

Diameter of rivet holes in long. seams 1½"

Pitch of rivets 10½"

Lap of plates or width of butt straps 22"

Strength of longitudinal joint

rivets 85.3

plate 85.3

Working pressure of shell by rules 210 lbs.

Size of manhole in shell 16" x 12"

No. and Description of Furnaces in each boiler 3, Brighton's

Material Steel

Outside diameter 49½"

Plain part

Thickness of plates crown 10/16"

Description of longitudinal joint welded

No. of strengthening rings Corrug

Pressure of furnace by the rules 205 lbs.

Combustion chamber plates: Material Steel

Thickness: Sides 11/16"

Back 11/16"

Top 11/16"

Bottom 1"

Stays to ditto: Sides 8¾" x 9"

Back 10" x 7¾"

Top 8¾" x 8½"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules 204 lbs.

Stays Steel

Area at smallest part 1.633"

Area supported by each stay 9" x 8¾"

Working pressure by rules 239 lbs.

End plates in steam space

Steel

Thickness 1½"

Pitch of stays 21" x 19"

How are stays secured

nuts

Working pressure by rules 203 lbs.

Material of stays Steel

Area supported by each stay 21" x 19"

Working pressure by rules 204 lbs.

Material of Front plates at bottom Steel

Material of Lower back plate Steel

Thickness 1"

Greatest pitch of stays 16½" x 7¾"

Working pressure of plate by rules 208 lbs.

Pitch of tubes 3¾"

Material of tube plates Steel

Thickness: Front 1"

Back 13/16"

Mean pitch of stays 7½"

Wide water spaces 13½"

Working pressures by rules 210 lbs.

Girders to Chamber tops: Material Steel

Depth and

girder at centre 10" x 1½"

Length as per rule 34½"

Distance apart 8¾"

Number and pitch of stays in each 3, 8½"

Pressure by rules 203 lbs.

Steam dome: description of joint to shell

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Working pressure of shell by rules

Crown plates

Thickness

How stayed

Type

Date of Approval of Plan

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

W198-0199

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