

# REPORT ON MACHINERY.

No. 27907

Received at London Office

WED. AUG. 25 1920

pt. 4.

24 AUG 1920 Port of Sunderland

of writing Report

When handed in at Local Office

Date, First Survey 16 Jan 1920 Last Survey 19

Survey held at Sunderland  
on the S/S "GIRONDE"

Tons { Gross  
Net

Built at Hoboken

By whom built Antwerp Engineering Co. Ltd (S/N 75)

When built 1920

Machinery made at Sunderland

By whom made North Eastern Marine Engg Co. Ltd (N 2407) when made 1920

1920

Machinery made at Sunderland

By whom made North Eastern Marine Engg Co. Ltd (N 2407) when made 1920

1920

Registered Horse Power

Owners

Port belonging to

Horse Power as per Section 28 213

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

GINES, & Co. — Description of Engines Triple expansion

No. of Cylinders 3

No. of Cranks 3

No. of Cylinders 20, 33, 54

Length of Stroke 36

Revs. per minute 79

Dia. of Screw shaft as per rule 11.38" Material of screw shaft as fitted 11.5/8"

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

the propeller boss ✓ 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 liner fits tightly throughout

Length of stern bush 3-10 1/2"

Are the liners fitted, is the shaft lapped or protected between the liners ✓

Dia. of Tunnel shaft as per rule 9.93" as fitted 10 1/8" Dia. of Crank shaft journals as per rule 10.427" as fitted 10 7/8" Dia. of Crank pin 10 5/8" Size of Crank webs 16 x 6 1/2" Dia. of thrust shaft under

blades 10 5/8" Dia. of screw 14-3" Pitch of Screw 13-9"

No. of Blades 4

State whether moveable no

Total surface 630 ft

No. of Feed pumps 2

Diameter of ditto 3"

Stroke 1-9"

Can one be overhauled while the other is at work yes

No. of Bilge pumps 2

Diameter of ditto 3"

Stroke 1-9"

Can one be overhauled while the other is at work yes

No. of Donkey Engines 2

Sizes of Pumps 7 1/2 x 9" 6 1/4 x 6"

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

Engine Room

In Holds, &c.

No. of Bilge Injections 2

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

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

Are they Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are the Discharge Pipes above or below the deep water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

Are the Blow Off Cocks fitted with a spigot and brass covering plate

How are they protected

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

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

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

MANUFACTURERS, & Co. — (Letter for record S) Manufacturers of Steel John Spencer & Sons Ltd.

Total Heating Surface of Boilers 26320 ft Is Forced Draft fitted no

No. and Description of Boilers two single ended marine

Working Pressure 180

Tested by hydraulic pressure to 360

Date of test 25-6-20

No. of Certificate 3698

Can each boiler be worked separately

Area of fire grate in each boiler 460 ft

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

Thickness 1 5/16"

Range of tensile strength 29-33 tons

Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams DR

Long. seams NBS. TR

Diameter of rivet holes in long. seams 1 1/4"

Pitch of rivets 9 3/4"

Lap of plates or width of butt straps 19 1/4"

Percentages of strength of longitudinal joint

rivets 86.8

Working pressure of shell by rules 182

Size of manhole in shell 16 x 12"

Size of compensating ring flange

No. and Description of Furnaces in each boiler 3 Brighton

Material steel

Outside diameter 3-4 1/4"

Length of plain part

top

Thickness of plates

bottom 1 1/2"

Description of longitudinal joint welded

No. of strengthening rings

Working pressure of furnace by the rules 181

Combustion chamber plates: Material steel Thickness: Sides 2 3/4" Back 2 5/8" Top 2 5/8" Bottom 2 3/8"

Working pressure by rules 181

Pitch of stays to ditto: Sides 9 1/2" x 10 1/2" Back 11 1/2" x 10" Top 9 1/2" x 9 1/2"

If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 181

Material of stays steel

Area at smallest part 2.030"

Area supported by each stay 950"

Working pressure by rules 192

End plates in steam space:

Material steel

Thickness 1 5/16"

Pitch of stays 24 1/2" x 17 1/2"

How are stays secured NN&W

Working pressure by rules 180

Material of stays steel

Area at smallest part 7.660"

Area supported by each stay 4300"

Working pressure by rules 186

Material of Front plates at bottom steel

Thickness 1 3/16"

Material of Lower back plate steel

Thickness 1 5/16"

Greatest pitch of stays 15 3/8" x 10"

Working pressure of plate by rules 181

Diameter of tubes 3 1/2"

Pitch of tubes 4 1/2" x 4 1/2"

Material of tube plates steel

Thickness: Front 1 3/16" Back 3/4"

Mean pitch of stays 10 1/2"

Pitch across wide water spaces 15" (H. 15")

Working pressures by rules 182

Girders to Chamber tops: Material steel

Depth and

Thickness of girder at centre 208" x 178"

Length as per rule 2-6 1/2"

Distance apart 9 3/4"

Number and pitch of stays in each 2 @ 9 1/4"

% of strength of joint

Working pressure by rules 188

Steam dome: description of joint to shell

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

Date of Test

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted



