

REPORT ON MACHINERY

No. 31725

Received at London Office
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of writing Report

When handed in at Local Office

18/3 to 20 Port of Hull

in Survey held at
g. Book.

Date, First Survey 16/7/18 Last Survey 17-3-1920

on the ST TUG "ST. CLAUDE"

(Number of Visits 73
Tons { Gross 444
Net 8.
When built 1919.

ster Built at Hull By whom built Laminthe & Cooper

ines made at Hull By whom made Taylor & H. & Co. Ltd. A227 when made 1919.

ilers made at Hull By whom made do when made 1919.

gistered Horse Power Owners Port belonging to

m. Horse Power as per Section 28 208 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

GINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3

1. of Cylinders 18 1/2 x 28 1/2 x 48 1/2 Length of Stroke 28 Revs. per minute 128 Dia. of Screw shaft as per rule 9 1/2 as fitted 10 1/2 Material of screw shaft Steel

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

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

rs are fitted, is the shaft lapped or protected between the liners No liner Length of stern bush 42

1. of Tunnel shaft as per rule 8.52 as fitted 8 1/2 Dia. of Crank shaft journals as per rule 8.95 as fitted 9 Dia. of Crank pin 9 Size of Crank webs 18 1/2 x 18 Dia. of thrust shaft under

lars 9 Dia. of screw 10 1/2 Pitch of Screw 12 1/2 No. of Blades 4 State whether moveable No Total surface 34 ft

of Feed pumps 2 Diameter of ditto 3 1/2 Stroke 13 1/2 Can one be overhauled while the other is at work Yes

of Bilge pumps 2 Diameter of ditto 3 1/2 Stroke 13 1/2 Can one be overhauled while the other is at work Yes

of Donkey Engines 2 Sizes of Pumps one 1 1/2 x 5 1/2 and size of Suctions connected to both Bilge and Donkey pumps

Engine Room One 2 1/2 in. engine, 12 1/2 in. boiler. In Holds, &c. one 3 in. fore & after pumps & one 2 in.

each compartment all suction connected to ejector

of Bilge Injections one sizes 6 Connected to condenser, or to circulating pump or pump a separate Donkey Suction fitted in Engine room & size 2 1/2

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 Yes

all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both

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

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

at pipes are carried through the bunkers One exhaust How are they protected casing

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

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

the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

PLERS, &c.—(Letter for record S) Manufacturers of Steel Plates Port Talbot Iron Works & Palmer 2.S.B.

al Heating Surface of Boilers 3384 Is Forced Draft fitted Yes No. and Description of Boilers Two single ended

orking Pressure 180 lbs. Tested by hydraulic pressure to 360 lbs. Date of test Feb. 8-5-19 No. of Certificate 3356

each boiler be worked separately Yes Area of fire grate in each boiler 43.5 No. and Description of Safety Valves to

h boiler Two spring loaded Area of each valve 7.06 Pressure to which they are adjusted 185 lbs. Are they fitted with easing gear Yes

allest distance between boilers or uptakes and bunkers or woodwork 12 (lagged) Internal dia. of boilers 150 Length 11-0 Material of shell plates Steel

ckness 1 1/2 Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams double

1. seams TRIPS Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 7 1/2 Lap of plates or width of butt straps 16

centages of strength of longitudinal joint rivets 88.4 Working pressure of shell by rules 182 lbs. Size of manhole in shell 20 x 16

of compensating ring 9 1/2 x 1 1/2 No. and Description of Furnaces in each boiler Three vertical Material Steel Outside diameter 39 1/2

ngth of plain part top Thickness of plates crown 3 1/2 Description of longitudinal joint welded No. of strengthening rings

orking pressure of furnace by the rules 192 Combustion chamber plates: Material Steel Thickness: Sides 3 1/2 Back 3 1/2 Top 3 1/2 Bottom 3 1/2

ch of stays to ditto: Sides 9 x 8 Back 9 1/2 x 8 1/2 Top 8 1/2 x 8 1/2 stays are fitted with nuts or riveted heads Yes Working pressure by rules 200 lbs.

aterial of stays Steel Area at smallest part 1.76 Area supported by each stay 74 Working pressure by rules 190 lbs. End plates in steam space:

aterial Steel Thickness 1 1/2 Pitch of stays 18 x 18 How are stays secured JWSW Working pressure by rules 185 lbs. Material of stays Steel

a at smallest part 6.22 Area supported by each stay 324 Working pressure by rules 190 lbs. Material of Front plates at bottom Steel

ckness 1 1/2 Material of Lower back plate Steel Thickness 3 1/2 Greatest pitch of stays 14 x 8 1/2 Working pressure of plate by rules 188

meter of tubes 2 1/2 Pitch of tubes 3 1/2 x 3 5/8 Material of tube plates Steel Thickness: Front 1 1/2 Back 3 1/2 Mean pitch of stays 8 1/2

ch across wide water spaces 13 1/2 Working pressures by rules 185 lbs. Girders to Chamber tops: Material Steel Depth and

knness of girder at centre 1 1/2 x 1 1/2 Length as per rule 30 1/2 Distance apart 8 1/2 Number and pitch of stays in each Two, 8 1/2

orking pressure by rules 184 lbs. Steam dome: description of joint to shell Nil % of strength of joint

6.8 meter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

ch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

Visits 4 SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

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

meter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

