

REPORT ON MACHINERY.

No. 2883

REC'D NEW YORK June 22 1918.

Received at London Office

Date of writing Report 12th June 1918 When handed in at Local Office 12th June 1918 Port of PhiladelphiaNo. in Survey held at Camden
Reg. Book. on the S. S. "Gulfland"Date, First Survey 6th July 1916 Last Survey 4th June 1918

Master O. Anderson Built at Camden

By whom built New York P. B. Corp

Tons { Gross 5276
Net 3207
When built 1918

Engines made at Camden

By whom made New York P. B. Corp (1st 189)

when made 1918

Boilers made at Do

By whom made Do

when made 1918

Registered Horse Power

Owners Gulf Refining Co.

Port belonging to Camden

Nom. Horse Power as per Section 28 543

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines

Triple Expansion

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 27", 45", 75" Length of Stroke 48" Revs. per minute 75 Dia. of Screw shaft as per rule 15" 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 5'-9"

Dia. of Tunnel shaft as per rule 13'-6"

Dia. of Crank shaft journals as per rule 14'-3"

Dia. of Crank pin 15"

Size of Crank webs 11" x 24"

Dia. of thrust shaft under

collars 14' 4"

Dia. of screw 18'-0"

Pitch of Screw 18'-3"

No. of Blades 11

State whether moveable Yes

Total surface 74' 4" proj.

No. of Feed pumps 2

Diameter of ditto 12' 8"

Stroke 18"

Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2

Diameter of ditto 4' 2"

Stroke 22"

Can one be overhauled while the other is at work Yes

No. of Donkey Engines 4

Sizes of Pumps 12" x 14" x 14" x 12"

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

In Engine Room & Blt Rm. : 6-3 1/2"

In Holds, &c. 4 ft pump room 1-3 1/2" x 2-3"

No. of Bilge Injections 1 sizes 10" Connected to condenser, or to circulating pump pump 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

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 none

How are they protected

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

BOILERS, &c.—(Letter for record (4))

Manufacturers of Steel

Carnegie Steel Co.

Total Heating Surface of Boilers 7843 sq ft Is Forced Draft fitted Yes No. and Description of Boilers 3 Single Ended

Working Pressure 190 lbs

Tested by hydraulic pressure to 285 lbs

Date of test 9-6-17

No. of Certificate 132

Can each boiler be worked separately Yes

Area of fire grate in each boiler 57.75 sq ft

No. and Description of Safety Valves to

each boiler double spring loaded

Area of each valve 8.29 sq ft

Pressure to which they are adjusted 190 lbs

Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 11"

Mean dia. of boilers 14' 10 3/4"

Length 11' 2 1/2"

Material of shell plates Steel

Thickness 1 3/8"

Range of tensile strength 78/82 tons

Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D. Riv.

long. seams T. R. D. B. S.

Diameter of rivet holes in long. seams 1 9/16"

Pitch of rivets 10' 8"

Lap of plates or width of butt straps 22 3/4"

Per centages of strength of longitudinal joint rivets 94%

plates 84.4%

Working pressure of shell by rules 206 lbs

Size of manhole in shell 16" x 12"

Size of compensating ring 36 1/2" x 32 1/2" x 1 1/8"

No. and Description of Furnaces in each boiler 3 corrugated

Material Steel

Outside diameter 3' 10 1/16"

Length of plain part top

Thickness of plates crown

bottom 19"

Description of longitudinal joint weld

No. of strengthening rings

Working pressure of furnace by the rules 204

Combustion chamber plates: Material Steel

Thickness: Sides 5/8"

Back 5/8"

Top 5/8"

Bottom 5/8" A.B.

Pitch of stays to ditto: Sides 7' x 7 1/4"

Back 7' x 7"

Top 7' x 7"

If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 256

Material of stays iron

Area at smallest part 1' 69.4"

Area supported by each stay 52.5"

Working pressure by rules 193

End plates in steam space:

Material Steel

Thickness 1 1/8"

Pitch of stays 16' x 15 1/4"

How are stays secured D. nuts

Working pressure by rules 217

Material of stays Steel

Area at smallest part 5.93"

Area supported by each stay 245.9"

Working pressure by rules 250

Material of Front plates at bottom Steel

Thickness 1 1/16"

Material of Lower back plate Steel

Thickness 1 1/16"

Greatest pitch of stays 14' 4" x 7 1/2"

Working pressure of plate by rules 337

Diameter of tubes 2 1/2"

Pitch of tubes 3 3/4" x 3 1/2"

Material of tube plates Steel

Thickness: Front 1 1/16"

Back 3/4"

Mean pitch of stays 9' 8"

Pitch across wide water spaces 13 1/2"

Working pressures by rules 222

Girders to Chamber tops: Material Steel

Depth and

thickness of girder at centre 9' x 20' 7/8"

Length as per rule 2' 9 1/2"

Distance apart 7 1/2"

Number and pitch of stays in each 4 @ 7"

Working pressure by rules 252

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

Date of Test

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

Is Easing Gear fitted

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

0900-8811M

