

Rpt. 4.

REPORT ON MACHINERY

No. 3503

MON. 13 JUN. 1921

Date of writing Report

19

When handed in at Local Office

19

Port of

Received at London Office

San Francisco

No. in Survey held at
Reg. Book.

LOS ANGELES

Date, First Survey

Last Survey 28th MARCH 1921

(Number of Visits)

on the

Tons }
Gross
Net

Master

Built at VANCOUVER, WASH.

By whom built G. M. STANDIFER CONG. CORPN

When built

Engines made at

LOS ANGELES CAL.

By whom made

LLEWELLYN IRON WORKS

when made 1921

Boilers made at

By whom made

when made

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &c.—Description of Engines

QUADRUPLE EXPANSION

No. of Cylinders 4

No. of Cranks 4

Dia. of Cylinders 24" x 35" x 51" x 1/5"

Length of Stroke 51"

Revs. per minute 82

Dia. of Screw shaft as per rule

Material of screw shaft

Is 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

in 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

If two

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

Length of stern bush

Dia. of Tunnel shaft as per rule

Dia. of Crank shaft journals as per rule 14 1/16"

as fitted 14 1/4"

Dia. of Crank pin 14 3/4" Size of Crank webs 5 1/8" x 9 1/4"

Dia. of thrust shaft under

collars 14 1/4"

Dia. of screw

Pitch of Screw

No. of Blades

State whether moveable

Total surface

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps Two

Diameter of ditto 3 1/2"

Stroke 24"

Can one be overhauled while the other is at work Yes

No. of Donkey Engines

Sizes of Pumps

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

In Engine Room

In Holds, &c.

No. of Bilge Injections

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

What pipes are carried through the bunkers

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

BOILERS, &c.—(Letter for record

Manufacturers of Steel

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

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

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets.....
plate.....

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top.....
bottom.....

Thickness of plates

crown.....
bottom.....

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

009954-009961-0211

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 1. Section crank shaft. 1 set of piston rings and springs for each cylinder. 2. Air pump links complete. 1 Air pump rod and bucket. 3 Valve spindles. 2 Eccentric straps. 1 Crank pin brass with bolts and nuts complete. 2 Crosshead brasses with bolts and nuts complete. 2 Main bearing bolts and nuts. 1 set (8) coupling bolts and nuts. 12 cylinder cover studs. 8 valve chest cover studs. 10 follower studs for piston. 1 set of Air pump valves, studs and guards. 1 set of bilge pump valves, studs, guards and springs. 1 set of cylinder relief valve springs. 100 assorted bolts and nuts.

The foregoing is a correct description,

Attest *Donkel, Engineer*
Llewellyn Iron Works

Manufacturer.

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

Nov. 3, 11, Dec. 15, 28, Jan. 5, 24, Feb. 4, 5, 7, 11, 21, Mar. 18, 21, 24, 25, 26, 28

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 21/3/21 Slides 24/10/3/21 Covers 18/3/21 Pistons 21/3/21 Rods 21/3/21

Connecting rods 18/3/21 Crank shaft 25/3/21 Thrust shaft 21/3/21 Tunnel shafts Screw shaft Propeller

Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft STEEL Identification Mark on Do. LLOYDS 1074 25-3-21 W.S. (9) Material of Thrust shaft STEEL Identification Mark on Do. 25-3-21 W.S. (9)

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.

Material of Steam Pipes Test pressure

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 If so, state name of vessel

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

The above engines were constructed under Special Survey of materials, tested to Rule requirements and the workmanship found good throughout. When these engines have been efficiently installed in the vessel and proved satisfactory under working conditions, it is the opinion of the undersigned that these engines are eligible to be classed in the Register Book. * L.M.C. (WITH DATE)

IN MARK ON SPARE SECTION
CRANK SHAFT

LLOYDS
1074
25-3-21
W.S. (9)

The amount of Entry Fee ... £ : : When applied for,
Special 2/5ths fee \$ 208:10 : Apr. 14, 1921
Donkey Boiler Fee ... £ 65:00 : When received,
FORGINGS - - - \$ 197:63 : 12.5.21
Travelling Expenses (if any)

Wm. Smith & J. Blackett
Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute

New York MAY 31 1921

Assigned

See P. Or. Rpt 633



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Foundation