

REC'D NEW YORK FEB 24 1921

See 870. 1st Entry Report No. 3454.

Rpt. 4.

REPORT ON MACHINERY

No. 139

THU. 17 MAR. 1921

Date of writing Report 13th Feb 1919 When handed in at Local Office

Port of Chicago, Ill.

No. in Survey held at Milwaukee Reg. Book.

Date, First Survey April 4th 1919. Last Survey 19

(Number of Visits)

Master Built at Oakland Calif By whom built Haulen D. O. B & SBC
Engines made at Milwaukee Wis By whom made Allis-Chalmers Mfg Co "C" when made 1919
Boilers made at By whom made when made

Registered Horse Power Owners Port belonging to
Nom. Horse Power as per Section 28 396 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Vertical Triple Expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 24"-39"-65" Length of Stroke 42" Revs. per minute 70 Dia. of Screw shaft as per rule 13.18 as fitted 14.0 Material of screw shaft O.H.S
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 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 57"
Dia. of Tunnel shaft as per rule 12.2 as fitted 12.5 Dia. of Crank shaft journals as per rule 12.81 as fitted 13 Dia. of Crank pin 13 Size of Crank webs 25 1/2 x 8 1/2 Dia. of thrust shaft under collars 13 1/4 Dia. of screw 15-3 Pitch of Screw No. of Blades State whether moveable Total surface
No. of Feed pumps 2 Diameter of ditto 3 7/8 Stroke 21 Can one be overhauled while the other is at work
No. of Bilge pumps 2 Diameter of ditto 3 7/8 Stroke 21 Can one be overhauled while the other is at work
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

OILERS, &c.—(Letter for record) Manufacturers of Steel
Total Heating Surface of Boilers 7200 Is Forced Draft fitted No No. and Description of Boilers
Working Pressure 200 LBS. 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 Thickness of plates crown 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

002897-002906-0144

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Alfred Chalmers Mfg Co
S. H. Harner Chief Inspector

Manufacturer.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits
1919. April 22-25-29. May 16-20-23-28. June 17-24. July 8-15. August 22-26-29. Sept 9-12-16.

Is the approved plan of main boiler-forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 20-5-19 Slides 15-7-19 Covers 5-8-19 Pistons 5-8-19 Rods 5-8-19

Connecting rods 5-8-19 Crank shaft 22-8-19 Thrust shaft 29-8-19 Tunnel shafts 15-8-19 Screw shaft 15-8-19 Propeller

Stern tube 15-8-19. 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 O.H.S. Identification Mark on Do. LLOYD'S C 16-9-19 J.A.R. Material of Thrust shaft O.H.S. Identification Mark on Do. LLOYD'S H-2255 15-8-19 J.A.R.

Material of Tunnel shafts O.H.S. Identification Marks on Do. LLOYD'S H-2255 15-8-19 J.A.R. Material of Screw shafts O.H.S. Identification Marks on Do. LLOYD'S 15-8-19 J.A.R.

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 yes. If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. The above engines have been constructed

under Special Survey. The material & workmanship employed in their manufacture is as far as can be seen all sound & good. Together with intermediate & propeller shaft they have been forwarded to Oakland California to be fitted on vessel as stated.

Certificate (if required) to be sent to

The amount of Entry Fee ... £ : : When applied for,
Special CHICAGO 1/3 ... \$ 66 : 33 :
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) \$ 62 : 65 :
See J. to 1st & 2nd Rpt. New York FEB 23 1921 No. 3454.

Committee's Minute

Assigned See J. to Rpt 3454

J. A. Rhynas

Engineer Surveyor to Lloyd's Register of Shipping.



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