

REPORT ON MACHINERY.

REC'D NEW YORK
Date of writing Report 19 When handed in at Local Office 19 Port of Philadelphia
No. in Survey held at Reg. Book. on the Emergency Electric Light Hull No 979
Date, First Survey Last Survey 23. 1920
Master Built at Alexandria By whom built Virginia Shipbuilding Co
Engines made at Phillipsburg N.Y. By whom made Ingersoll Rand Coy (No 1080) 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 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks Three
Dia. of Cylinders 24 1/2 x 11 1/2 x 12 Length of Stroke 18 Revs. per minute Dia. of Screw shaft as per rule Material of screw shaft as fitted
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 12.1 Dia. of Crank shaft journals as per rule 12.15 Dia. of Crank pin 14 3/8 Size of Crank webs 9 1/2 x 29 3/4 Dia. of thrust shaft under collars 14 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 5 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
Dates of examination of completion of fitting of Sea Connections of Stern Tube Screw shaft and Propeller
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 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 Working pressure of shell by rules Size of manhole in shell plate
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 bottom
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 Diameter 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
Diameter 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 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR.

SPARE GEAR. State the articles supplied:—Two top end & Two bottom end bolts, Two main bearing bolts, One set Coupling bolts, One set feed & bilge pump valves, One set piston springs.

The foregoing is a correct description,

INGERSOLL-RAND COMPANY

per Gomez

Manufacturer.

<i>Dates of Survey while building</i>	{	<i>During progress of</i>	}
		<i>work in shops - -</i>	
		<i>During erection on</i>	
		<i>board vessel - -</i>	
		<i>Total No. of visits</i>	

Is the approved plan of main boiler forwarded herewith

“ “ “ *donkey* “ “

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods

Connecting rods Crank shaft Thrust shaft 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
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<i>Main boiler safety valves adjusted</i>	<i>Thickness of adjusting washers</i>
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Material of Crank shaft 04 Steel Identification Mark on Do. A.B. 154 Material of Thrust shaft 04 Steel Identification Mark on Do. A.B. 154

<i>Material of Tunnel shafts</i>	<i>Identification Marks on Do.</i>	<i>Material of Screw shafts</i>	<i>Identification Marks on Do.</i>
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Material of Steam Pipes	Test pressure
Cast iron	150 lb. per sq. in.
Wrought iron	200 lb. per sq. in.
Steel	250 lb. per sq. in.

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 pbrs the
obtained from the
Buryers to the
American.

The amount of Entry Fee	...	£	:	:	When applied for.
Special	...	£	:	:	
Donkey Boiler Fee	...	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	:	

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

New York FEB - 3 1920

Assigned

see Ball. Rpt 2766

Lloyd's Register
Foundation