

Mar 5-1920

Rpt. 4.

REPORT ON MACHINERY.

No. 1280
TUE. APR. 6 1920

Date of writing Report 26 Feb 1920 When handed in at Local Office 28 Feb 1920 Port of Bath, Me.
 No. in Survey held at Bath, Me. Date, First Survey 16 Aug 1919 Last Survey 13 Jan 1920
 Reg. Book. on the steel screw steamer ROANOKE (Number of Visits 2)
 Master By whom built The Fenwick Steamship Co. Tons { Gross 6784
 Engines made at Buffalo, N.Y. By whom made H. E. Hunt & Co. Net 5765
 Boilers made at Bayonne, N.J. By whom made Babcock & Wilcox Co. When built 1920
 Registered Horse Power 556 Owners The Fenwick Co. Port belonging to London
 Nom. Horse Power as per Section 28 556 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
 Dia. of Cylinders 26 1/2" - 44" - 74" Length of Stroke 51" Revs. per minute 75 Dia. of Screw shaft 15 1/2" Material of screw shaft steel
 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
 the propeller boss yes If the liner is in more than one length are the joints burned Yes 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 Yes If two
 liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 5' 3 1/2"
 Dia. of Tunnel shaft 14 3/4" Dia. of Crank shaft journals 14 3/4" Dia. of Crank pin 14 3/4" Size of Crank webs 28" x 10" Dia. of thrust shaft under
 bars 14 3/4" Dia. of screw 17' 9" Pitch of Screw 17' 6" No. of Blades 7 State whether moveable No Total surface 108 1/2
 No. of Feed pumps 2 duplex Diameter of ditto 11 1/2" Stroke 26" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 5 1/2" Stroke 24" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 2 duplex Sizes of Pumps 1000 & 500 No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room 4-3 1/2" x 1-4 1/2" In Holds, &c. Oil cargo pumping system
 No. of Bilge Injections 1 sizes 10" Connected to condensate circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 10"
 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 Yes
 Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves
 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 Below
 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
 Are the pipes carried through the bunkers Oil fuel How are they protected Insulation, oil fuel
 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 No tunnel Is it fitted with a watertight door Yes worked from Yes

ILERS, &c.—(Letter for record S) Manufacturers of Steel Lukens Iron & Steel Co. 3 W. T. B.
 Total Heating Surface of Boilers 9969 sq ft Is Forced Draft fitted No No. and Description of Boilers 3 Watertube Babcock & Wilcox type
 Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test Sept 1919 No. of Certificate 30
 Can each boiler be worked separately Yes Area of fire grate in each boiler 87.5 sq ft No. and Description of Safety Valves to
 each boiler 2 spring loaded Area of each valve 9.62 sq in Pressure to which they are adjusted 200 lbs. Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork abt 2' 0" Mean dia. of boiler 42" Length 14' 7 3/8" Material of shell plates steel
 Thickness 9/16" Range of tensile strength 55/65,000 lbs. Are the shell plates welded or flanged No Descrip. of riveting: cir. seams S. R. Lap
 Longitudinal seams D. R. D. B. S. Diameter of rivet holes in long. seams 29/32" Pitch of rivets 4 1/2" x 2 3/32" Lap of plates or width of butt straps 9 3/4" x 15"
 Percentages of strength of longitudinal joint 108 Working pressure of shell by rules 284 lbs. Size of manhole in shell 15" x 11"
 No. of compensating ring flanged ring 7/16" No. and Description of Furnaces in each boiler Yes Material Yes Outside diameter Yes
 Length of plain part top Thickness of plates crown Description of longitudinal joint Yes No. of strengthening rings Yes
 Working pressure of furnace by the rules Yes Combustion chamber plates: Material Yes Thickness: Sides Yes Back Yes Top Yes Bottom Yes
 No. of stays to ditto: Sides Yes Back Yes Top Yes If stays are fitted with nuts or riveted heads Yes Working pressure by rules Yes
 Material of stays Yes Area at smallest part Yes Area supported by each stay Yes Working pressure by rules Yes End plates in steam space: Yes
 Material steel Thickness 19/32" Pitch of stays Yes How are stays secured 42" R Working pressure by rules 204 lbs Material of stays Yes
 Area at smallest part Yes Area supported by each stay Yes Working pressure by rules Yes Material of Front plates at bottom Yes
 Thickness Yes Material of Lower back plate Yes Thickness Yes Greatest pitch of stays Yes Working pressure of plate by rules Yes
 Diameter of tubes Yes Pitch of tubes Yes Material of tube plates Yes Thickness: Front Yes Back Yes Mean pitch of stays Yes
 Distance across wide water spaces Yes Working pressures by rules Yes Girders to Chamber tops: Material Yes Depth and Yes
 Thickness of girder at centre Yes Length as per rule Yes Distance apart Yes Number and pitch of stays in each Yes
 Working pressure by rules Yes Steam dome: description of joint to shell Yes % of strength of joint Yes
 Diameter Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet holes Yes
 No. of rivets Yes Working pressure of shell by rules Yes Crown plates Yes Thickness Yes How stayed Yes

UPERHEATER. Type Tube Date of Approval of Plan 29 May 1919 Tested by Hydraulic Pressure to 400 lbs
 Date of Test 6 Sept 1919 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes
 Diameter of Safety Valve 1 1/2" Pressure to which each is adjusted 200 lbs. Is Easing Gear fitted Yes

Lloyd's Register
Foundation

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IS A DONKEY BOILER FITTED?

No.

If so, is a report now forwarded?

✓

SPARE GEAR.

State the articles supplied:— 2 connecting rod top end bolts & nuts, 2 connecting rod bottom end bolts & nuts, 1 set coupling bolts, 2 main bearing bolts, 1 set feed & bilge pump valves, assorted nuts, bolts & rivets. Piston rings for all cylinders, section of crank shaft, spare propeller, 1 pair crank pin bushes, 1 pair crosshead bushes, 1 link block, 2 eccentric straps, air pump rod, HP & MP valve spindle, spare check valves, cylinder cover studs, valve chest cover studs, pump ring bolts. Boiler tubes, condenser tubes, spare valves & parts for all pumps. Spare parts for B & W boilers & oil fuel fittings.

The foregoing is a correct description,

The Texas Steamship Co
per Geo B Drake mgr

Manufacturer.

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

1919 Aug 16 Sept 2, 6, 13, Oct 2, 7, Nov 6, 25 Dec 3, 5, 11, 29, 30 1920 Jan 9, 10, 21, 22 Feb 2, 12, 13, 20.

Is the approved plan of main boiler forwarded herewith

no

Dates of Examination of principal parts—Cylinders

Slides

Covers

Pistons

Rods

Connecting rods

Crank shaft

Thrust shaft

Tunnel shafts

Screw shaft

Propeller

Stern tube

28 Nov 1919. Steam pipes tested 22/2/20

Engine and boiler seatings 6/12/19

Engines holding down bolts 29/12/19

Completion of pumping arrangements 12/2/20

Boilers fixed 12/2/20

Engines tried under steam 12/2/20

Completion of fitting sea connections 31/12/19

Stern tube 28/12/19

Screw shaft and propeller 5/12/19

Main boiler safety valves adjusted 2/2/20

Thickness of adjusting washers

Locknuts fitted

Material of Crank shaft

Identification Mark on Do.

Material of Thrust shaft

Identification Mark on Do.

Material of Tunnel shafts

Identification Marks on Do.

Material of Screw shafts

Identification Marks on Do.

Material of Steam Pipes

Steel ✓

Test pressure

600 lb ✓

Is an installation fitted for burning oil fuel

yes ✓

Is the flash point of the oil to be used over 150°F.

yes ✓

Have the requirements of Section 49 of the Rules been complied with

yes ✓

Is this machinery duplicate of a previous case

yes

If so, state name of vessel

Argon, Boston report 1215.

General Remarks

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

The machinery & boilers of this vessel have been built under Special Survey, as per Buffalo report 45 & New York report 17007 herewith. They have now been fitted on board under Special Survey in accordance with the Rules & approved plans & the workmanship & material are good. They have been satisfactorily tested under full power at sea & they are now in good & safe working condition & eligible in my opinion, to receive the notations + LMC 2.20 (in red) in the Register Book and 'FITTED FOR OIL FUEL 2.20 F.P. ABOVE 150°F', subject to the water tube boilers being annually surveyed.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 2.20. F.D.

Subject to the Water Tube Boilers being surveyed annually.

3 WATER TUBE BOILERS. FITTED FOR OIL FUEL 2.20 F.P. ABOVE 150°F.

The amount of Entry Fee ... £ \$ 15.00 :
Special ... £ 23.9.25 :
Buffalo Foreign Monkey Boiler Fee ... £ 40.00 :
New York Travelling Expenses (if any) £ 47.00 :

When applied for,

1st March 1920.

When received,

11/3/20

Committee's Minute

New York MAR - 9 1920

Assigned

+ LMC 2.20 subject

MAINTENANCE COSTS
6.4.20

Wm. Stewart

John S. Heck

Engineer Surveyor to Lloyd's Register of Shipping.



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