REC'D NEW YORK July 19 1918

pt. 4.

REPORT ON MACHINERY.

No. 139.

Received at London Office SAT 10 AUG 1918

te of writing Report ..... 19 ..... When handed in at Local Office ..... 19 ..... Port of Cleveland. O.

o. in eg. Book. Survey held at Buffalo N.Y. Date, First Survey 5. May 1917 Last Survey 12. 1. 1918 (Number of Visits .....)

on the S.S. "SAGADAHOC" Tons { Gross ..... Net .....

aster ..... Built at Bath Me By whom built The Texas Shipbuilding Co When built .....

ngines made at Buffalo N.Y. By whom made H. G. Trout. Co (No. 58) when made 1918

oilers made at ..... By whom made ..... when made .....

egistered Horse Power ..... Owners ..... Port belonging to .....

m. Horse Power as per Section 28 555. Is Refrigerating Machinery fitted for cargo purposes ..... Is Electric Light fitted .....

GINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3.

a. of Cylinders 26½. 44. 74" Length of Stroke 51" Revs. per minute 75 Dia. of Screw shaft as per rule 14.71 .1495 as fitted 15½ Material of screw shaft S.

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 No Joints If the liner does not fit tightly at the part tween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive — If two ners are fitted, is the shaft lapped or protected between the liners — Length of stern bush 63¾"

ia. of Tunnel shaft as per rule 13.75" as fitted 14⅞ Dia. of Crank shaft journals as per rule 14.4" as fitted 14¾ Dia. of Crank pin 14¾" Size of Crank webs 28" x 10" Dia. of thrust shaft under llars 14¾ Dia. of screw 17'-0" 17'-6" Pitch of Screw 18'-0" No. of Blades 4 State whether moveable Yes Total surface 87 ☐'

o. of Feed pumps ..... Diameter of ditto ..... Stroke ..... Can one be overhauled while the other is at work .....

o. of Bilge pumps 2 Diameter of ditto 5½" Stroke 24" Can one be overhauled while the other is at work Yes

o. of Donkey Engines ..... Sizes of Pumps ..... No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room ..... In Holds, &c. .....

o. of Bilge Injections ..... sizes ..... Connected to condenser, or to circulating pump ..... Is a separate Donkey Suction fitted in Engine room & size .....

re 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 .....

re all connections with the sea direct on the skin of the ship ..... Are they Valves or Cocks .....

re 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 .....

re 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 .....

hat pipes are carried through the bunkers ..... How are they protected .....

re all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times .....

re the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges .....

the Screw Shaft Tunnel watertight ..... Is it fitted with a watertight door ..... worked from .....

OILERS, &c.—(Letter for record .....) Manufacturers of Steel .....

otal Heating Surface of Boilers 8118 ☐' Is Forced Draft fitted Yes No. and Description of Boilers .....

Working Pressure 190 lb. Tested by hydraulic pressure to ..... Date of test ..... No. of Certificate .....

an each boiler be worked separately ..... Area of fire grate in each boiler ..... No. and Description of Safety Valves to ch boiler ..... Area of each valve ..... Pressure to which they are adjusted ..... Are they fitted with easing gear .....

mallest distance between boilers or uptakes and bunkers or woodwork ..... Mean dia. of boilers ..... Length ..... Material of shell plates .....

hickness ..... Range of tensile strength ..... Are the shell plates welded or flanged ..... Descrip. of riveting: cir. seams .....

ng. seams ..... Diameter of rivet holes in long. seams ..... Pitch of rivets ..... Lap of plates or width of butt straps .....

er centages of strength of longitudinal joint rivets ..... plate ..... Working pressure of shell by rules ..... Size of manhole in shell .....

ize of compensating ring ..... No. and Description of Furnaces in each boiler ..... Material ..... Outside diameter .....

ength 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 .....

itch 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 .....

rea at smallest part ..... Area supported by each stay ..... Working pressure by rules ..... Material of Front plates at bottom .....

hickness ..... Material of Lower back plate ..... Thickness ..... Greatest pitch of stays ..... Working pressure of plate by rules .....

iameter of tubes ..... Pitch of tubes ..... Material of tube plates ..... Thickness: Front ..... Back ..... Mean pitch of stays .....

itch across wide water spaces ..... Working pressures by rules ..... Girders to Chamber tops: Material ..... Depth and ickness 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 .....

iameter ..... Thickness of shell plates ..... Material ..... Description of longitudinal joint ..... Diam. of rivet holes .....

itch of rivets ..... Working pressure of shell by rules ..... Crown plates ..... Thickness ..... How stayed .....

PERHEATER. Type ..... Date of Approval of Plan ..... Tested by Hydraulic Pressure to .....

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

iameter of Safety Valve ..... Pressure to which each is adjusted ..... Is Easing Gear fitted .....

W118-0031

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IS A DONKEY BOILER FITTED? If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

H. G. Trout Co Manufacturer.

Dates of Survey while building — During progress of work in shops: 1917. May 5, Jun 8, Jul 7, 27, Aug 23, Sep 11, 13, 19, 22, 28, Oct 6, 12, 16, 23, 27, Nov 5, 9, 22, Dec 6, 11, 1918. During erection on board vessel: 24, 26, 28, Jany 6, 9, 12.

Total No. of visits ..... Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 5.11.17. Slides 5.11.17. Covers 23.10.17. Pistons 26.12.17. Rods 23.10.

Connecting rods 9.11.17. Crank shaft 11.9.17. Thrust shaft 11.9.17. Tunnel shafts 11.9.17. Screw shaft 11.9.17. Propeller 16.1

Stern tube 5.11.17. 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 S Identification Mark on Do. FWT. 1918 58 deg. Material of Thrust shaft S. Identification Mark on Do. FWT. 58 d.

Material of Tunnel shafts S. Identification Marks on Do. FWT. 1918 58 deg. Material of Screw shafts S. Identification Marks on Do. FWT. 58 d.

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 Eng. 57. s/s. "Rhode Island"

General Remarks (State quality of workmanship, opinions as to class, &c. The steam engines have been constructed under Special Survey. The materials and workmanship employed in their manufacture are sound and good. They have been forwarded to Bo. to be fitted on board Ship No. 3. being built by the Texas Steamship

Certificate (if required) to be sent to .....

The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee ... £ : :

1/3 Special ... ... £ 79 : 70 :

Engine & Donkey Boiler Fee ... £ 60 : 00 :

Cleveland & Buffalo Travelling Expenses (if any) £ 35 : 00 :

When applied for, ... 19.....

When received, 15/8/18 ..... 19.....

W. Lane. F. W. Ferdell. Wm. H. Se

Engineer Surveyor to Lloyd's Register of Shippi

Committee's Minute New York JUL 23 1918

Assigned See Bos. Rpt 1043.

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