

Emergency Fleet Corporation No. 930

REC'D NEW YORK NOV 20 1920

Hull 9

Rpt. 4.

REPORT ON MACHINERY.

No. 72.

Date of writing Report 21st June 19 When handed in at Local Office 26th June 19 Port of Alexandria Received at London Office TUE DEC 7 1920

No. in Survey held at Hamilton Ohio Date, First Survey 2nd June Last Survey 16th June 1919

Reg. Book. 78048 on the ENG N^o 4551

Master Laurent Built at Alexandria Va By whom built Virginia S. B. Co. When built 1920

Engines made at Hamilton Ohio By whom made Hoover Arms & Rentschler Co. when made 1919

Boilers made at Chester Pa. By whom made Sun Shipbuilding Company when made 1920

Registered Horse Power _____ Owners Emergency Fleet Corporation Port belonging to Alexandria Va.

Nom. Horse Power as per Section 28 510. Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

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

Dia. of Cylinders 24 1/2" - 41 1/2" - 72" Length of Stroke 48" Revs. per minute 88. Dia. of Screw shaft 14 2/9" Material of Steel
as per rule 14 2/9" as fitted 15 1/4" screw shaft

Is the screw shaft fitted with a continuous liner the whole length of the stern tube no (2 liners) 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 blacked 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 5' 2 1/2"

Dia. of Tunnel shaft 13 1/8" as per rule 13 1/8" as fitted 13 7/8" Dia. of Crank shaft journals 13 7/8" as per rule 13 7/8" as fitted 14" Dia. of Crank pin 14 3/8" Size of Crank webs 29 1/4" x 27" Dia. of thrust shaft under collars 14" Dia. of screw 16-9" Pitch of Screw 16-9" No. of Blades 4. State whether moveable no. Total surface 79.06 sq ft

No. of Feed pumps 2 Diameter of ditto 12x8 Stroke 24 Can one be overhauled while the other is at work yes

No. of Bilge pumps 2. Diameter of ditto 5" Stroke 21." Can one be overhauled while the other is at work yes.

No. of Donkey Engines 4 Sizes of Pumps 1/2 x 8 1/2 x 12 10 x 7 x 10 12 x 10 x 12 7 1/2 x 5 x 10 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room No 1 - 3 1/2" Tunnel No 2 - 3 1/2" Thrud Recm 3 1/2" In Holds, &c. No 1 - 3 1/2" No 2 - 3 1/2" No 3 - 3 1/2" No 4 - 3 1/2"

No. of Bilge Injections 1 sizes 10" Connected to condenser, or to circulating pump Cia Pump Is a separate Donkey Suction fitted in Engine room & size yes 3 1/2"

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 ✓

Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both

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

What pipes are carried through the bunkers none How are they protected _____

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 yes Is it fitted with a watertight door yes worked from Engine room top platform

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# 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 _____

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

Length of plain part _____ Thickness of plates _____ 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 _____

RETAINED

Gross 6060
Net 3750

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Lloyd's Register
Foundation
W 389-0188

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two top & bottom end belts & nuts. Two diam bearing bolts & nuts. Set of coupling bolts & nuts. Pair of top end brasses. One crank pin bearing. H.P. Valve spindle. Two H.P. 2 I.P. + One L.P. piston rings. Two H.P. piston valve rings. Set of valves, guards & studs for air & bilge pump.

The foregoing is a correct description,

for engine only
THE HOVEN, OWENS, RENTSCHLER CO.

59 Rule East 4th St New York City Manufacturer. 23/6/19

Dates of Survey while building { During progress of work in shops -- June 2nd to 9th 1919. / During erection on board vessel -- / Total No. of visits

Is the approved plan of main boiler forwarded herewith No.

Dates of Examination of principal parts—Cylinders 2/6/19 Slides 16/6/19 Covers 16/6/19 Pistons 9/6/19 Rods 9/6/19
Connecting rods 16/6/19 Crank shaft 2/6/19 Thrust shaft 16/6/19 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 see list attached

Material of Crank shaft Steel Identification Mark on Do. Material of Thrust shaft Steel Identification Mark on Do.
Material of Tunnel shafts Steel Identification Marks on Do. Material of Screw shafts Steel 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 No. 4516 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, also under the supervision of the American Bureau Surveyor.
The materials & workmanship employed in their manufacture so far as can be seen are sound & efficient.
When the Engines have been satisfactorily installed in vessel & proved satisfactory under working conditions & spare gear being supplied as required by the rules, the vessel in which they are fitted will in my opinion be eligible for record of F.L.M.C. (with date)

The amount of Entry Fee ... \$: : When applied for.
Special ... \$: : 19.
Donkey Boiler Fee ... £ : : When received.
Travelling Expenses (if any) \$ 14.35 : : 19.
25.75

Committee's Minute New York NOV 23 1920
Assigned See Ballo Rpt. No. 3050
J. Robinson
Engineer Surveyor to Lloyd's Register of Shipping.

