

Emergency Fleet Corporation No. 927

Please attach to Baltimore report No. 2834

REC'D NEW YORK July 1919

Rpt. 4.

REPORT ON MACHINERY.

No. 69

Date of writing Report 14 June 19 When handed in at Local Office 18 June 19 Port of Cleveland Received at London Office TUE APR 13 19:0

No. in Survey held at Hamilton Ohio Date, First Survey 26th May Last Survey 9th June 1919
Reg. Book. on the ENG No 4548 Steamer Clemence C Morel (Number of Visits 3)

Master A. Haley Built at Alexandria Va By whom built Virginia S. B. Co. Tons { Gross 6061
Net 3759
When built 1920

Engines made at Hamilton Ohio By whom made Horron Owens & Kentschler Co when made 1919

Boilers made at Chester Pa By whom made Sun Shipbuilding Co when made 1919

Registered Horse Power _____ Owners Emergency Fleet Corporation Port belonging to Alexandria Va
Nom. Horse Power as per Section 28 510 547 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

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 as per rule 14.29 Material of screw shaft Steel
as fitted 15 1/2

Is the screw shaft fitted with a continuous liner the whole length of the stern tube (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 soldered 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 29 3/4 x 27

Dia. of Tunnel shaft as per rule 13.16 Dia. of Crank shaft journals as per rule 13.75 / 3.81 Dia. of Crank pin 14 3/8 Size of Crank webs x 9 1/2 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 _____ Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____

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 _____ 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 _____

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 _____ 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 _____

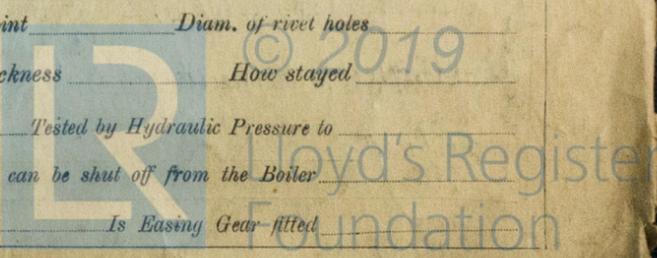
Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____

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 _____



W 20-0131

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— Two top & bottom end bolts & nuts. Two main bearing bolts & nuts, set of coupling bolts & nuts, one crank pin bearing. Pair of top end braces. H.P. Valve spindle. Two H.P. two I.P. & one S.P. piston rings. Two H.P. piston valve rings. Set of valves, guards & studs for air & bilge pumps.

The foregoing is a correct description,

for engine only
THE HOOVEN, OWENS, RENTSCHLER CO.

S. S. Heale, Asst Chief Eng'r Manufacturer.
18/6/19

Dates of Survey while building
 { During progress of work in shops - - } May 26th June 2nd & 9th 1919.
 { During erection on board vessel - - - }
 Total No. of visits

Is the approved plan of main boiler forwarded herewith Do.

Dates of Examination of principal parts—Cylinders 26/5/19 Slides 2/6/19 Covers 2/6/19 Pistons 2/6/19 Rods 9/6/19
 Connecting rods 9/6/19 Crank shaft 26/5/19 Thrust shaft 9/6/19 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
 Material of Crank shaft Steel Identification Mark on Do. See list attached Material of Thrust shaft Steel Identification Mark on Do. See list attached
 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 N° 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 & under the supervision of the American Bureau Surveyors.
 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 & proving 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 L.R.C. (with date)

Certificate (if required) to be sent to

The amount of Entry Fee ... \$15.00 : When applied for,
 Special ... \$: : 19
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) \$ 18.85 : : 19
37.75

J. Robinson
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York MAR 3 0 1920
 Assigned See Balto. Rpt 2834

