

Rpt. 4.

REPORT ON MACHINERY

No. 258
UE NOV. 2 1920

Received at London Office

Date of writing Report 14/9/20 When handed in at Local Office 14/9/20 Port of Cleveland Ohio
 No. in Survey held at Cleveland Ohio Date, First Survey 22/12/19 Last Survey 28/9/1920
 Reg. Book. 5/3 ROMAGNE (S/N^o 494 ENGINES 494 BOILERS N^o 494) (Number of Visits 47)
 on the 5/3 ROMAGNE (S/N^o 494 ENGINES 494 BOILERS N^o 494) Tons { Gross
 Net
 Master Bull at Cleveland By whom built American Shipbuilding Co. When built 1920-9
 Engines made at Cleveland O By whom made American Shipbuilding Co. when made 1920
 Boilers made at Lorain O. By whom made American Shipbuilding Co. when made 1920
 Registered Horse Power Not yet stated Port belonging to Not yet stated
 Nom. Horse Power as per Section 28 267 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple expansion vertical No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 20"-33"-54" Length of Stroke 40" Revs. per minute 85 Dia. of Screw shaft 11.53" Material of screw shaft Steel
 Is 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
 in the propeller boss Yes If the liner is in more than one length are the joints burned As per rule 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 4'3"
 Dia. of Tunnel shaft 10'3" as per rule 10'3" Dia. of Crank shaft journals 10'8" as per rule 10'9" Dia. of Crank pin 11" Size of Crank webs 21x6" Dia. of thrust shaft under
 collars 11" Dia. of screw 14'-0" Pitch of Screw 12'-5" No. of Blades 4 State whether moveable Yes Total surface 64"
 No. of Feed pumps 2 Diameter of ditto 10"x17" Stroke 12" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 20" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 2 Duplex Sizes of Pumps 7 1/2"x6"x10" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 5-3" Thrust Reverser 1-3" Tunnel 1-3" In Holds, &c. Forward 2-3" After 3-3"

No. of Bilge Injections 1 sizes 6" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes-3"
 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 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 Yes
 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 Yes
 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 Eng Room Top platform

BOILERS, &c.—(Letter for record Yes) Manufacturers of Steel Carnegie Steel Coy.
 Total Heating Surface of Boilers 3940 Is Forced Draft fitted Yes No. and Description of Boilers Two Cyl. Multi Single ended.
 Working Pressure 185 lbs. Tested by hydraulic pressure to 278 lbs. Date of test 17/2/20 No. of Certificate 494
 Can each boiler be worked separately Yes Area of fire grate in each boiler 44 sq ft (coal) No. and Description of Safety Valves to
 each boiler Two Spring Area of each valve 7.07" Pressure to which they are adjusted 185 lbs. Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 18 1/2" Mean dia. of boilers 13'-2" Length 10'-10 1/2" Material of shell plates Steel
 Thickness 1 1/32" Range of tensile strength 60,000 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams CR/Lap
 long. seams CR/2R Diameter of rivet holes in long. seams 1 7/16" Pitch of rivets 9" Lap of plates or width of butt straps 12 1/2"x20"
 Per centages of strength of longitudinal joint 84.9 Working pressure of shell by rules 190 lbs. Size of manhole in shell 15"x11"
 Size of compensating ring 30"x33"x1 1/2" No. and Description of Furnaces in each boiler 2 Morrison Material Steel Outside diameter 52 1/4"
 Length of plain part top 1 1/2" Thickness of plates bottom 5/8" Description of longitudinal joint Welded No. of strengthening rings Yes
 Working pressure of furnace by the rules 187 Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 9/16" Bottom 5/8"
 Pitch of stays to ditto: Sides 7 1/4"x7 1/4" Back 7 1/4"x7 1/4" Top 7 1/2"x7 1/4" If stays are fitted with nuts or riveted heads Yes riveted Working pressure by rules 188
 Material of stays Iron Area at smallest part 1.72" Area supported by each stay 52.5" Working pressure by rules 196 End plates in steam space:
 Material Steel Thickness 1" Pitch of stays 6 7/8"x14" How are stays secured 8 nuts Working pressure by rules 187 Material of stays Steel
 Area at smallest part 4.9" Area supported by each stay 240" Working pressure by rules 212 Material of Front plates at bottom Steel
 Thickness 1" Material of Lower back plate Steel Thickness 1" Greatest pitch of stays 13 3/4"x7 1/4" Working pressure of plate by rules 211
 Diameter of tubes 2 1/2" Pitch of tubes 3 3/4"x3 1/2" Material of tube plates Steel Thickness: Front 1" Back 1 1/16" Mean pitch of stays 11 1/4"x7"
 Pitch across wide water spaces 13 3/4"x7 1/4" Working pressures by rules 211 Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 9 1/8"x1 1/2" Length as per rule 32 7/8" Distance apart 7 3/4" Number and pitch of stays in each 3 @ 7 1/4"
 Working pressure by rules 218 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
 Pitch of rivets Yes Working pressure of shell by rules Yes Crown plates Yes Thickness Yes How stayed Yes
 Visits 4 SUPERHEATER. Type Horizontal Date of Approval of Plan 21 Feb. 1920 Tested by Hydraulic Pressure to 630 lbs.
 Date of Test 7/2/20 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 190 lbs. Is Easing Gear fitted Yes

IS A DONKEY BOILER FITTED? *no.*

If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied:—

Two top end bolts + nuts. Two bottom end bolts + nuts. Two main bearing bolts + nuts. Set of coupling bolts + nuts. Set of valves for Air Feed, & Bilge pumps. One set of Springs for H.P. I.P. & L.P. pistons. A quantity of bolts + nuts. Iron of various sizes. Two spare propeller blades.

The foregoing is a correct description,

The American Ship Bldg Co. *for* Manufacturer.

Dates of Survey while building
During progress of work in shops -- *ENG. N° 494 1919 DEC 24, 30, 1920 JAN 6, 17, 21, 24 MAR 12, 17, 23 APR 19*
During erection on board vessel -- *BOILERS N° 494 1919 DEC 22, 27, 30, 1920 JAN 5, 9, 13, 15, 20, 22, 26 FEB 24, 9, 12, 13, 17*
Total No. of visits *HULL N° 494 1920 MAR 25, 30 APR 13, 5, 19 26, 27 MAY 17, 20, 24, 28, 29 JUNE 7, 9, 11, 24 JULY 1 (AUG 7, SEPT 28)*

Is the approved plan of main boiler forwarded herewith *no*

" " " donkey " " " *yes*

Dates of Examination of principal parts—Cylinders *6/2/20* Slides *23/3/20* Covers *22/3/20* Pistons *3/4/20* Rods *3/4/20*
Connecting rods *6/1/20* Crank shaft *8/3/20* Thrust shaft *30/3/20* Tunnel shafts *20/5/20* Screw shaft *14/1/20* Propeller *9/9/20*
Stern tube *23/3/20* Steam pipes tested *28/5/20* Engine and boiler seatings *23/3/20* Engines holding down bolts *17/5/20*
Completion of pumping arrangements *24/6/20* Boilers fixed *19/4/20* Engines tried under steam *24/6/20*
Completion of fitting sea connections *25/3/20* Stern tube *25/3/20* Screw shaft and propeller *23/2/20*
Main boiler safety valves adjusted *24/6/20* Thickness of adjusting washers *Lock nuts fitted*

Material of Crank shaft *Steel* Identification Mark on Do. *440 XDS 1920 G.D.* Material of Thrust shaft *Steel* Identification Mark on Do. *440 XDS 1920 G.D.*
Material of Tunnel shafts *Steel* Identification Marks on Do. *440 XDS 1920 G.D.* Material of Screw shafts *Steel* Identification Marks on Do. *440 XDS 1920 G.D.*

Material of Steam Pipes *Steel (lefts heavy lap welded)* Test pressure *555 lbs.*

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 *"BACCARAT" (HULL N° 493)*

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

The above Engines & Boilers have been constructed under special survey. The materials & workmanship employed therein, so far as can be seen, are sound & good. The Engines & Boilers have been satisfactorily installed in the vessel, & examined under full steam. The safety valves have been adjusted to release at 185 lbs pressure on the boilers, & 190 lbs pressure on the superheaters.

a 7 1/2" x 6" x 10" transfer pump is fitted in the stokehold. The double bottom piping is so arranged that the Ballast pump can be made to work on any of the oil tanks; or the transfer pump on any of the water tanks, with the exception of N° 3 fresh water tank.

This vessel is eligible, in my opinion, to have the Record of LMC 9-20, with the notation of "Fitted for oil fuel 9-20 F.P. above 150°F." in the Register Book.

The amount of Entry Fee ... *\$10.00* : When applied for, *13/10/19*
Special ... *\$166.75* :
Donkey Boiler Fee ... *\$45.00* :
Travelling Expenses (if any) *\$221.75* : When received, *22-11-20*

Committee's Minute *New York* OCT 19 1920

Assigned

+ Lmb. 9.20

MACHINERY DEPT.
WRITTEN 2.11.20

G. Drummond.
Engineer Surveyor to Lloyd's Register of Shipping.
© 2020
Lloyd's Register Foundation