

REPORT ON MACHINERY.

No. 11412

Received at London Office MON. 6 DEC. 1920

Date of writing Report *27th Nov. 1920* When handed in at Local Office *2-12-1920* Port of *Antwerp*
 Date, First Survey *17th August* Last Survey *24th Nov. 1920*
 (Number of Visits *8*)
 To, in Survey held at *Antwerp*
 Reg. Book. *2149* on the *S/S "GIRONDE"*
 Master *Victor Potollege*. Built at *Noboken* By whom built *Antwerp Eng. Co. Ltd (No 75)* When built *1920*
 Engines made at *Sunderland* By whom made *N.E. Marine Eng. Co. Ltd. (No 2407)* when made *1920*
 Boilers made at *Sunderland* By whom made *N.E. Marine Eng. Co. Ltd. (No 2407)* when made *1920*
 Registered Horse Power *✓* Owners *Armement Deppe*. Port belonging to *Antwerp*
 Nom. Horse Power as per Section 28 *213*. Is Refrigerating Machinery fitted for cargo purposes *No*. Is Electric Light fitted *yes*.

ENGINES, &c.—Description of Engines
 No. of Cylinders _____ No. of Cranks _____
 Dia. of Cylinders _____ Length of Stroke _____ Revs. per minute _____
 Dia. of Screw shaft _____ as per rule _____ Material of screw shaft _____
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube _____
 Is the after end of the liner made water tight _____
 If the liner is in more than one length are the joints turned _____
 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 _____
 Dia. of Tunnel shaft _____ as per rule _____ Dia. of Crank pin _____ Dia. of Crank webs _____ Dia. of thrust shaft under _____
 as fitted _____ as fitted _____
 Collars _____ Dia. of screw _____ No. of Blades _____ State whether moveable _____ Total surface _____
 No. of Feed pumps _____ Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
 No. of Bilge pumps _____ Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
 No. of Donkey Engines *Two*. Sizes of Pumps *7 1/2 x 9 + 6 x 4 + 6* No. and size of Suctions connected to both Bilge and Donkey pumps _____
 In Engine Room *Four 3"* In Holds, &c. *No 1 hold 2-3, No 2 hold 3-3 + 1-3*
 in the tunnel well.
 No. of Bilge Injections *1* sizes *6"* Connected to condenser, or to circulating pump *pump* 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 *none*.
 Are all connections with the sea direct on the skin of the ship *yes*. Are they Valves or Cocks *Both valves & cocks*.
 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 *above & 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 *Fore hold Bilge*. How are they protected *2 1/2" thick wood box*.
 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 *Cylinder platform*.

OILERS, &c.—(Letter for record *5*) Manufacturers of Steel _____
 Total Heating Surface of Boilers *3632 sq ft* Is Forced Draft fitted *No*. No. and Description of Boilers *2 Single Ended Marine*.
 Working Pressure *180 lb*. Tested by hydraulic pressure to *360 lb*. Date of test *25.6.20*. No. of Certificate *3698*.
 Can each boiler be worked separately *yes*. Area of fire grate in each boiler *46 sq ft*. No. and Description of Safety Valves to _____
 each boiler *2 spring loaded*. Area of each valve *9.6 sq in*. Pressure to which they are adjusted *185 lb*. Are they fitted with easing gear *yes*.
 Smallest distance between boilers or uptakes and bunkers or woodwork *12"* Mean dia. of boilers *14'-0"* Length *10'-6"* Material of shell plates *steel*.
 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 _____
 Water Capacity _____ Material of stays _____ Area at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ End plates in steam space: _____
 Tons _____ Material _____ Thickness _____ Pitch of stays _____ How 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 *None* 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 _____

IS A DONKEY BOILER FITTED? *No.*

If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied:— *Propeller, tail shaft, 2 connecting rod top + 2 bottom end bolts, 2 main bearing bolts, 1 set of coupling bolts, 1 set each of feed pump valves, 1 bag of assorted bolts + nuts, bars of various sizes, 1 pair of top + bottom end brasses, 1 slide valve spindle, 1 eccentric strap, 1 pump rod, 1 feed pump ram, 10 Condenser tubes + 30 ferrules +*

The foregoing is a correct description,

Manufacturer

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

Is the approved plan of main boiler forwarded herewith ☒

" " " donkey " " " ☒

Dates of Examination of principal parts—Cylinders ☒ Slides ☒ Covers ☒ Pistons ☒ Rods ☒

Connecting rods ☒ Crank shaft ☒ Thrust shaft ☒ Tunnel shafts ☒ Screw shaft ☒ Propeller ☒

Stern tube *17.8.20.* Steam pipes tested *25.10.20* Engine and boiler seatings *22.9.20.* Engines holding down bolts *19.10.20.*

Completion of pumping arrangements *24.11.20.* Boilers fixed *19.10.20.* Engines tried under steam *24.11.20.*

Completion of fitting sea connections *28.8.20* Stern tube *28.8.20.* Screw shaft and propeller *28.8.20.*

Main boiler safety valves adjusted *11.11.20.* Thickness of adjusting washers *P. Boiler F.V. = 3/64" A.V. = 1/32"*
S. Boiler F.V. = 9/16" A.V. = 9/16"

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 *wrought iron.* Test pressure *540 lbs.*

Is an installation fitted for burning oil fuel *No.* 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 ☒ If so, state name of vessel ☒

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

*The workmanship + materials are good.
The machinery has been fitted on board this vessel under Special Survey, tried under steam in full working conditions, and found satisfactory.
The machinery of this vessel is eligible in my opinion to have notation + L. M. C. 11.20. in the Society's Register Book.*

NOTE:- *A report on the Electric Light will be forwarded in due course.*

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 11.20

Roll
14/12/20
JRR

The amount of Entry Fee ... £ - : - :
= *1/3* Special in Lances ... £ *10* : *4* : -
Donkey Boiler Fee ... £ *55* : - :
Travelling Expenses (if any) £ : :
When applied for, 19...
When received, *6/12/1920*

Committee's Minute *FRI. 17 DEC. 1920*

Assigned

+ L.M.C. 11.20.

J.H. Filditch.

Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation