

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 2-12-20 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 Foteliege. Built at Noboken By whom built Antwerp Eng. Co. Ltd (No 75) When built 1920
Tons { Gross 1754
Net 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

Com. 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 _____

Is the propeller boss _____ 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 _____

When 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 _____ as per rule _____ Dia. of Crank pin _____ Size of Crank webs _____ Dia. of thrust shaft under _____

Collars _____ Dia. of screw _____ 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' x 9' x 9" + 6' x 4' x 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'

No. of Bilge Injections 1 sizes 6" Connected to condenser, or to circulating pump no 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 _____ crown _____ 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 _____

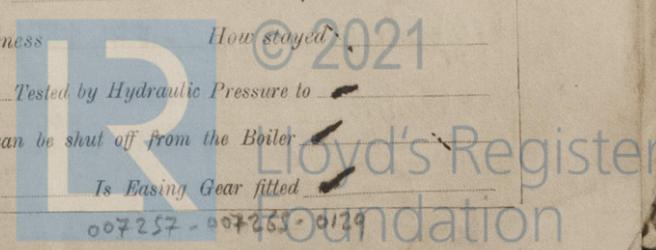
Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____

Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

UPERHEATER. 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

Is the approved plan of donkey boiler forwarded herewith

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

Bell 14/12/20 JRR

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

H. H. Filditch, Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 17 DEC. 1920 Assigned + L.M.C. 11.20.



Certificate (if required) to be sent to The Surveyors are requested not to write on or below the space for Committee's Minute.