

REPORT ON MACHINERY.

No. 35650

Received at London Office WED. 22 DEC. 1915

Date of writing Report to when handed in at Local Office is Port of Glasgow

No. in Survey held of Glasgow Date, First Survey 6/2/15 Last Survey 16 Dec 1915
Reg. Book. on the Engines of the SS (Number of Visits 36)

Master Bilbao Built at Bilbao By whom built Sa. Anon. Astilleros del Nervion When built 1915
Tone 119 Gross 119 Net 119

Engines made at Glasgow By whom made Ross & Duncanson (No 1006) when made 1915
Boilers made at Bilbao By whom made Sa. Anon. Astilleros del Nervion when made 1915

Registered Horse Power 139 Owners Port belonging to
Nom. Horse Power as per Section 28 139 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 16. 26. 44 Length of Stroke 33 Revs. per minute as per rule 140 Material of screw shaft iron
Dia. of Screw shaft as fitted 9 1/2

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 Yes 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 3'-2"
Dia. of Tunnel shaft as per rule 8 3/8 Dia. of Crank shaft journals as per rule 8 7/8 Dia. of Crank pin 8 7/8 Size of Crank webs 5 1/4 x 6 1/2 Dia. of thrust shaft under collars 8 3/4 Dia. of screw 11-9 Pitch of Screw 14-0 No. of Blades 4 State whether moveable No Total surface 47 1/2

No. of Feed pumps 2 Diameter of ditto 2 3/4 Stroke 16 1/2 Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 2 3/4 Stroke 16 1/2 Can one be overhauled while the other is at work Yes

No. of Donkey Engines one Sizes of Pumps 6 x 4 1/2 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room
In Engine Room In Holds, &c.

No. of Bilge Injections Yes sizes 3 1/2 Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Is
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 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 Dates of examination of completion of fitting of Sea Connections of Stern Tube Screw shaft and Propeller

Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from OILERS, &c.—(Letter for record) Manufacturers of Steel Total Heating Surface of Boilers 2386 1/2 Is Forced Draft fitted No. and Description of Boilers Working Pressure 180 lbs 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 Diameter 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 Diameter 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 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied: - Two each of main bearing & top & bottom ends bolts all with nuts, a set of coupling bolts & nuts, valves for each pump, assorted bolts & nuts, iron of various sizes

The foregoing is a correct description,

Ross & Duncan / Manufacturer.

Dates of Survey while building: During progress of work in shops - 1915 Feb 6-12-22-25. Mar 4-12. Apr 1-13-22-30. May 11-17-24-31. Jun 9-14-18. July 2-5-12. Aug 12-17-25-27. Sept 3-14-20-29. Oct 8-13-26. Nov 4-9-16. Dec 7-16. Total No. of visits 36

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts - Cylinders 12/3/15 & 17/5/15. Slides 3/9/15. Covers 12/2/15 & 8/4/15. Pistons 4/3/15 & 13/4/15. Rods 8/7/15. Connecting rods 3/9/15. Crank shaft 12/7/15. Thrust shaft 16/11/15. Tunnel shafts 16/11/15. Screw shaft 16/11/15. Propeller 29/9/15.

Stern tube 16/11/15. Steam pipes tested. Engine and boiler seatings. Engines holding down bolts. Completion of pumping arrangements. Boilers fixed. Engines tried under steam.

Main boiler safety valves adjusted. Thickness of adjusting washers.

Material of Crank shaft Steel. Identification Mark on Do. 10994. Material of Thrust shaft Iron. Identification Mark on Do. 10994.

Material of Tunnel shafts Iron. Identification Marks on Do. 10994. Material of Screw shafts Iron. Identification Marks on Do. 10994.

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 40. If so, state name of vessel.

General Remarks (State quality of workmanship, opinions as to class, &c.) This machinery has been built under special survey in accordance with the Rules. The materials & workmanship are good & the machinery has been despatched to Bilbas to be fitted on board.

GLASGOW

Vertical text on the left margin: The Surveyors are requested not to write on or below the space for Committee's Minutes.

The amount of Entry Fee ... £ 2.00. When applied for. Special ... £ 6-19-0. 20/12/1915. Donkey Boiler Fee ... £. When received. Travelling Expenses (if any) £. 24-12-1915. 21/1/16

Signature: P. Kilcher. Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute GLASGOW

Assigned Deferred for completion

FRI. 27. OCT. 1916. FRI. JAN. 19. 1917.



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