

REPORT ON MACHINERY

No. 10971
WED. 9 MAR. 1921

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Date of writing Report 19 21 When handed in at Local Office 7.3.21 10 Port of MIDDLESBRO

No. in Survey held at Stockton-on-Tees Date, First Survey 27th Sept/20 Last Survey 3rd March 1921

Reg. Book. on the Steel Screw Steamer ATXERI-MENDI (Number of Visits S.S. N^o 536) Tonnage Gross 3276 Net

Master Gabriel de Lebas Built at Stockton By whom built Ropner S. B. & Rly Co Lim^d When built 1921

Engines made at Stockton By whom made Messrs Blair & Co Lim^d (N^o 1918) when made 1921

Boilers made at Stockton By whom made Messrs Blair & Co Lim^d when made 1921

Registered Horse Power Owners Sota y Agnar Port belonging to Bilbao

Nom. Horse Power as per Section 28 358 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Tai-compound No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 24-40-66 Length of Stroke 45 Revs. per minute Dia. of Screw shaft as per rule 13.76 Material of screw shaft iron

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

propeller boss yes If the liner is in more than one length are the joints burned in one no If the liner does not fit tightly at the part

on the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive tight fit If two

are fitted, is the shaft lapped or protected between the liners Length of stern bush 5'-2"

Dia. of Tunnel shaft as per rule 12.128 Dia. of Crank shaft journals as per rule 12.79 Dia. of Crank pin 13 3/4" Size of Crank webs 26 1/2 x 9 Dia. of thrust shaft under

of Feed pumps 2 Diameter of ditto 3 Stroke 33 Can one be overhauled while the other is at work yes

of Bilge pumps 2 Diameter of ditto 4 1/2 Stroke 33 Can one be overhauled while the other is at work yes

of Donkey Engines 4 Sizes of Pumps 2 @ 9+9 No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 3 @ 3" + one 3 1/2" in dry tank In Holds, &c. 2 @ 3" in each hold: Funnel well

of Bilge Injections 1 sizes 6 3/4" Connected to centrifugal circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes - 4"

all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on funnel well bulkheads always accessible yes

all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both

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

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

at pipes are carried through the bunkers suctions to forward holds How are they protected wood ceiling

all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes

the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes

dates of examination of completion of fitting of Sea Connections 19.11.20 of Stern Tube 19.11.20 Screw shaft and Propeller 23.12.20

the Screw Shaft Tunnel watertight see hull Rpt Is it fitted with a watertight door yes worked from top platform

MATERIALS, &c.—(Letter for record (S)) Manufacturers of Steel Messrs John Spencer & Sons Lim^d

Total Heating Surface of Boilers 6078 Is Forced Draft fitted no No. and Description of Boilers Two single ended

Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 22.12.20 No. of Certificate 6190

In each boiler be worked separately yes Area of fire grate in each boiler 68.5 No. and Description of Safety Valves to

each boiler 2 direct spring Area of each valve 8.29 Pressure to which they are adjusted 185 lb Are they fitted with easing gear yes

smallest distance between boilers or uptakes and bunkers on woodwork 2'-0" Mean dia. of boilers 16'-9" Length 11'-6" Material of shell plates steel

Thickness 1 1/2" Range of tensile strength 28-32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams 2-R. Lap

long. seams 2-B-3 Riv Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9 1/4" Lap of plates or width of butt straps 20 5/8 + 1 1/4"

per centages of strength of longitudinal joint 5 Ribs per pitch rivets 88.8 Working pressure of shell by rules 184 Size of manhole in shell 16" x 12"

size of compensating ring 7 3/4" x 1 1/2" No. and Description of Furnaces in each boiler 3 Morrison Material steel Outside diameter 49 7/8"

length of plain part Thickness of plates Description of longitudinal joint Weld No. of strengthening rings

Working pressure of furnace by the rules 191 Combustion chamber plates: Material steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 2 5/32"

Pitch of stays to ditto: Sides 8 1/2" x 10 1/2" Back 9 3/8" x 9 3/8" Top 9 1/2" x 9 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 186

Material of stays steel Diameter at smallest part 1.99 Area supported by each stay 87.89 Working pressure by rules 204 End plates in steam space:

Material steel Thickness 1 5/8" Pitch of stays 19 3/4" x 22 1/4" How are stays secured nuts + 9 x 1 Working pressure by rules 193 Material of stays steel

Diameter at smallest part 7.87 Area supported by each stay 439 Working pressure by rules 186 Material of Front plates at bottom steel

Thickness 1" Material of Lower back plate steel Thickness 1 1/2" Greatest pitch of stays 14 5/8" x 9 3/8" Working pressure of plate by rules 236

Diameter of tubes 3 1/2" Pitch of tubes 4 3/8" x 4 7/8" Material of tube plates steel Thickness: Front 1 1/2" Back 1 1/2" Mean pitch of stays 10 3/32"

Pitch across wide water spaces 14 1/2" Working pressures by rules 192 Girders to Chamber tops: Material steel Depth and

thickness of girder at centre 8" x 2" Length as per rule 32" Distance apart 9 1/2" Number and pitch of stays in each 2 @ 9 1/2"

Working pressure by rules 197 Superheater or Steam chest; how connected to boiler none 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

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