

REPORT ON MACHINERY.

No. 16807

Received at London Office

WED. JAN. 27. 1915

Date of writing Report 22/11/15 When handed in at Local Office 22/11/15 Port of Greenock
 No. in Survey held at Greenock Date, First Survey 18/11/14 Last Survey 19/11/14
 Reg. Book. on the S.S. "ESPELETTE" (Number of Visits 2)
 Master Built at Greenock By whom built G. Brown & Co Tons } Gross
 Engines made at Glasgow By whom made Ross & Duncan } Net
 Boilers made at By whom made when made 1915
 Registered Horse Power Owners McAlister & Francis Port belonging to Bayonne
 Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines

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 in the propeller boss			Is the after end of the liner made water tight	
If the liner is in more than one length are the joints burned			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 shaft journals as per rule	Dia. of Crank pin	Size of Crank webs	Dia. of thrust shaft under collars
Dia. of screw	Pitch 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	Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps		
In Engine Room			In Holds, &c.	
No. of Bilge Injections	sizes	Connected to condenser, or to circulating pump	Is a separate Donkey Suction fitted in Engine room & size	
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 all connections with the sea direct on the skin of the ship		Are they Valves or Cocks		
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	

BOILERS, &c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers	Is Forced Draft fitted	No. and Description of Boilers		
Working Pressure	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	End plates in steam space:			
Material of stays	Diameter at smallest part	Area supported by each stay	Working pressure by rules	Material of stays
Material	Thickness	Pitch of stays	How are stays secured	Working pressure by rules
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
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:—

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

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller Stern tube Steam pipes tested Engine and boiler seatings 19/11/14 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 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 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 If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. Propeller & fastenings of sea connections examined before launching & found in order.)

Certificate (if required) to be sent to

The Surveyors are requested not to write on or below the space for Committee's Minute.

Table with columns for fee types (Entry Fee, Special, Donkey Boiler Fee, Travelling Expenses) and amounts (£), and a section for 'When applied for' and 'When received'.

Signature of G. Gaulton, Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute GLASGOW 26 JAN. 1915 Assigned See Gb. R.N. No. 34766

