

REPORT ON MACHINERY.

No. 16943

Received at London Office

WED. 23 FEB. 1916

Fitting Report 10/2/16 When handed in at Local Office 10/2/16 Port of Greenock
 Survey held at Greenock Date, First Survey 17/9/16 Last Survey 18/10/1916
 on the S.S. Porto Grande (Number of Visits 3)
 Built at Greenock By whom built G. Brown & Co Tons { Gross
 made at Glasgow By whom made McKie & Baxter When built 1916
 made at By whom made when made
 red Horse Power Owners St Vincent (Cape Verde) trading Co Port belonging to St Vincent
 Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

VES, &c.—Description of Engines

No. of Cylinders No. of Cranks
 Cylinders Length of Stroke Revs. per minute Dia. of Screw shaft as per rule Material of screw shaft
 as fitted as fitted screw shaft
 screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight
 propeller boss If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part
 the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two
 are fitted, is the shaft lapped or protected between the liners Length of stern bush
 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
 as fitted as fitted
 Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface
 Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room In Holds, &c.

Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size
 the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
 connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Both
 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
 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 yes
 pipes are carried through the bunkers How are they protected

Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
 of examination of completion of fitting of Sea Connections 18/10/15 of Stern Tube 29/9/15 Screw shaft and Propeller 18/10/15
 Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

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

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
 each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
 boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
 distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
 Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
 Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 stages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
 plate
 compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
 of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
 bottom
 working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
 of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
 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
 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
 across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
 weight 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
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 fitted 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

If so, is a report now forwarded?

The foregoing is a correct description,

Manufacturer.

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

Is the approved plan of main boiler forwarded herewith

” ” ” *donkey* ” ” ”

<i>Dates of Examination of principal parts—Cylinders</i>		<i>Slides</i>	<i>Covers</i>	<i>Pistons</i>	<i>Rods</i>
<i>Connecting rods</i>	<i>Crank shaft</i>	<i>Thrust shaft</i>	<i>Tunnel shafts</i>	<i>Screw shaft</i>	<i>Propeller</i>
<i>Stern tube</i>	<i>Steam pipes tested</i>	<i>Engine and boiler seatings</i>	<i>Engines holding down bolts</i>		
<i>Completion of pumping arrangements</i>		<i>Boilers fixed</i>	<i>Engines tried under steam</i>		
<i>Main boiler safety valves adjusted</i>		<i>Thickness of adjusting washers</i>			
<i>Material of Crank shaft</i>	<i>Identification Mark on Do.</i>	<i>Material of Thrust shaft</i>	<i>Identification Mark on Do.</i>		
<i>Material of Tunnel shafts</i>	<i>Identification Marks on Do.</i>	<i>Material of Screw shafts</i>	<i>Identification Marks on Do.</i>		
<i>Material of Steam Pipes</i>		<i>Test pressure</i>			

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.)

see connections examined before launching.

The propellers & fastenings of

Certificate (if required) to be sent to

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

The amount of Entry Fee	...	£	:	:	} When applied for,	
Special	...	£	:	:		19.....
Donkey Boiler Fee	...	£	:	:		} When received,
Travelling Expenses (if any)	£	:	:	:	19.....	

Harrold.
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute **GLASGOW** 2 FEB. 1916

Assigned See Gs. Rpt. No 35790.

TUES. 19 AUG 1924



Lloyd's Register
Foundation