

# REPORT ON MACHINERY.

No. 31804

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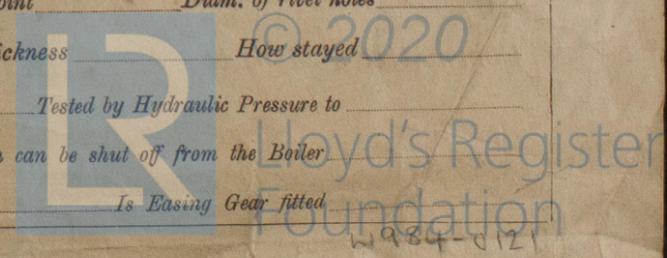
of writing Report 19 When handed in at Local Office 17.4 to 20 Port of Hull  
 in Survey held at Hull & Hull Date, First Survey Feb. 11 - Last Survey Feb. 16 19 20  
 g. Book. on the S.S. JACOBUS. (Number of Visits 2)  
 Gross 1262  
 Net 755.7  
 Tons }  
 When built 1920  
 No. 175 when made  
 By whom built Laird & Cooper Ltd  
 By whom made Shields & Co.  
 when made  
 Registered Horse Power Owners Sir Eric Phipps Port belonging to Hull  
 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

## GINES, &c.—Description of Engines

No. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft	No. of Cylinders	No. of Cranks
as per rule			as per rule		
as fitted			as fitted		
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		
the 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		
between 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		
No. of Tunnel shaft	Dia. of Crank shaft journals	Dia. of Crank pin	Size of Crank webs	Dia. of thrust shaft under	
as per rule	as per rule				
as fitted	as fitted				
ars	Dia. of screw	Pitch of Screw	No. of Blades	State whether moveable	Total surface
of Feed pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work		
of Bilge pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work		
of Donkey Engines	Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps			
Engine Room	In Holds, &c.				
of Bilge Injections	sizes	Connected to condenser, or to circulating pump	Is a separate Donkey Suction fitted in Engine room & size		
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		
all connections with the sea direct on the skin of the ship	Are they Valves or Cocks				
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				
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				
at pipes are carried through the bunkers	How are they protected				
all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times	Is this machinery duplicated				
the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges	Have the requirements of				
the Screw Shaft Tunnel watertight	Is it fitted with a watertight door		worked from		

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

Working 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
Least 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		
seams	Diameter of rivet holes in long. seams	Pitch of rivets
Lap of plates or width of butt straps		
percentages of strength of longitudinal joint	Working pressure of shell by rules	Size of manhole in shell
of compensating ring	No. and Description of Furnaces in each boiler	Material
Outside diameter		
Thickness 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
of stays to ditto: Sides	Back	Top
If stays are fitted with nuts or riveted heads	Working pressure by rules	
Material of stays	Area 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
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	
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		
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
Material	Thickness of shell plates	Material
Description of longitudinal joint	Diam. of rivet holes	
of rivets	Working pressure of shell by rules	Crown plates
Thickness	How stayed	
Superheater. Type	Date of Approval of Plan	Tested by Hydraulic Pressure to
of Test	Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler	
Material of Safety Valve	Pressure to which each is adjusted	Is Easing Gear fitted



W 984-0121

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 -- 1920: Feb. 11, 16 / During erection on board vessel --- / Total No. of visits 2

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

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 Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections 11/2/20 Stern tube 11/2/20 Screw shaft and propeller 16/2/20

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, stem tube, & fittings of sea connections examined before launching & afterwards while the vessel was on Fairlie ship & found in good & efficient condition

Certificate (if required) to be sent to Committee's Minute Assigned

Table with columns for fee type (Entry Fee, Special, Donkey Boiler Fee, Travelling Expenses), amount in £, and when applied for/received.

Signature of Engineer Surveyor to Lloyd's Register of Shipping.

