

# REPORT ON MACHINERY

WED. JUL. 5 1922 No. 83876

Received at London Office 30 DEC 1920

Date of writing Report 19 When handed in at Local Office 30 DEC 1920 Port of London  
 No. in Survey held at Newbury Date, First Survey 8th Sept. Last Survey 16th Dec 1920  
 Reg. Book. on the Engines No. 2396 of Bayeskimo (Number of Visits 9)  
 Master Built at Greenock By whom built Kincaid & Co. Eng. No. 544 Tons Gross 1391 Net 777  
 Engines made at Newbury By whom made Huntly & Son L<sup>d</sup> when made 1920  
 Boilers made at Greenock By whom made John S Kincaid & Co. Ltd when made 1922  
 Registered Horse Power Owners Hudson Bay Co Port belonging to London  
 Nom. Horse Power as per Section 28 142 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

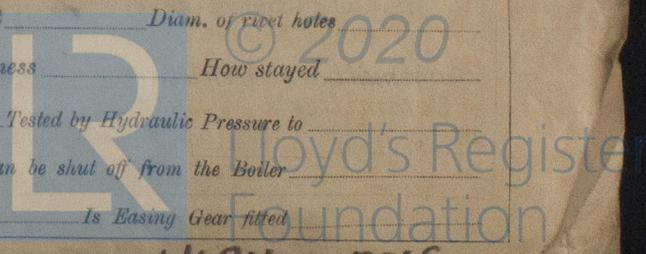
ENGINES, &c.—Description of Engines Triple Exp - Surface Condensing No. of Cylinders 3 No. of Cranks 3  
 Dia. of Cylinders 16"-27"-44" Length of Stroke 30 Revs. per minute Dia. of Screw shaft as per rule 9.55 9.07 Material of screw shaft 1 1/2" as fitted 9.1/8"  
 Is the screw shaft fitted with a continuous 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 No 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 No If two liners are fitted, is the shaft lapped or protected between the liners No Length of stern bush 38"  
 Dia. of Tunnel shaft as per rule 8.102 Dia. of Crank shaft journals as per rule 8.507 8 3/8" Dia. of Crank pin 8 3/8" Size of Crank webs 4" x 6" Dia. of thrust shaft under collars 8 3/8" Dia. of screw 11.0 Pitch of Screw 13.0 No. of Blades 4 State whether moveable Yes Total surface  
 No. of Feed pumps 2 Diameter of ditto 3 1/2" Stroke 15" Can one be overhauled while the other is at work Yes  
 No. of Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 15" Can one be overhauled while the other is at work Yes  
 No. of Donkey Engines Three Sizes of Pumps 4.6-7 1/2-8-6.6 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  
 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 2538 (2550) 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 rivets 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 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  
 Pitch 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  
 Area 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 Steam dome: description of joint to shell % of strength of joint  
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes  
 Pitch 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  
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler  
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

H624-0065



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Messrs. PLENTY & SON, Ltd.  
E. P. Plenty

Manufacturer.

Dates of Survey while building  
During progress of work in shops -- 1920:- Sep. 8, 15, 29. Oct 7, 14. Nov. 11, 25. Dec. 2, 16.  
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 29.9.20 Slides 29.9.20 Covers 29.9.20 Pistons 29.9.20 Rods 15.9.20

Connecting rods 15.9.20 Crank shaft 8.9.20 Thrust shaft 25.11.20 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 Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft Steel Identification Mark on Do. 695 WGN 19.2.19 Material of Thrust shaft Steel Identification Mark on Do. 697 WGN 19.2.19

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. Engines constructed under survey, material tested, workmanship good.

The above engines being forwarded to Messrs Kincaid & Co. Greenock to be fitted on board of the engine No. 574. No steam gear or shafting made here.

The amount of Entry Fee } £ 12 : 0 : 6  
Special } £ : : :  
Donkey Boiler Fee } £ : : :  
Travelling Expenses (if any) £ 2 : 12 : 6

When applied for, 30 DEC 1920

When received, 16/3/1921

Thomas Blackie

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 4-JUL 1922

Assigned See Glasgow Report No. 42031



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Lloyd's Register Foundation

Rpt. 4.  
Date of writing  
No. in Survey Reg. Book.  
Master  
Engines made  
Boilers made  
Registered  
Nom. Horse  
ENGINES  
Dia. of Cylinders  
Is the screw  
in the propeller  
between the  
liners are fitted  
Dia. of Tunnel  
collars & nuts  
No. of Feed  
No. of Bilge  
No. of Donkey  
In Engine Room  
No. of Bilge  
Are all the bilge  
Are all connections  
Are they fixed  
Are they each  
What pipes are  
Are all Pipes  
Are the Bilge  
Is the Screw  
BOILERS  
Total Heating  
Working Pressure  
Can each boiler  
each boiler  
Smallest distance  
Thickness of  
long, seams  
Per centages of  
Size of components  
Length of plates  
Working pressure  
Pitch of stays  
Material of stays  
Material of  
Area at small  
Thickness of  
Diameter of tubes  
Pitch across  
thickness of g  
Working pressure  
Diameter  
Pitch of rivets  
SUPERHEATED  
Date of Test  
Diameter of St

Certificate (if required) to be sent to  
The Surveyors are requested not to write on or below the space for Committee's Minute.