

## REPORT ON MACHINERY.

No. 42031.

Date of writing Report June 24<sup>th</sup> 1922 When handed in at Local Office July 1<sup>st</sup> 1922 Port of GLASGOW. Received at London Office WED JUL 26 1922No. in Survey held at Ardrassan Date, First Survey 25<sup>th</sup> May 1922 Last Survey June 24<sup>th</sup> 1922  
Reg. Book. on the SS. BAYESKIMO. (Number of Visits 10)Master                      Built at Ardrassan By whom built Ardrassan D.D. & S.B. Co Ltd Tons Gross 1391  
When built 1922 Net 777Engines made at Newbury. By whom made Plenty & Sons when made 1920Boilers made at Greenock By whom made John & Kincaid & Co Ltd when made 1922Registered Horse Power                      Owners Hudson Bay Co. Port belonging to LondonNom. Horse Power as per Section 28                      Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

## ENGINES, &amp;c.—Description of Engines

No. of Cylinders                      No. of Cranks                     Dia. of Cylinders                      Length of Stroke                      Revs. per minute 96 Dia. of Screw shaft                      as per rule                      Material of                       
as fitted                      as fitted                      screw shaft                     Is the screw shaft fitted with a continuous liner the whole length of the stern tube                      Is the after end of the liner made water tightin 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 partbetween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive                      If twoliners 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 undercollars                      as fitted                      as fitted                      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 3 @ 2 1/2" Stokehold 1 @ 2 1/2" In Holds, &c. No 1 hold. 2 @ 2 1/2" No 2 hold 2 @ 2 1/2"No 4 hold 2 @ 2 1/2" No 4 aft Well 1 @ 2 1/2" Tunnel Well 1 @ 2 1/2"No. of Bilge Injections 1 sizes 5" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size Yes 3 1/2"Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible                     Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both.Are 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 BelowAre 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 YesWhat pipes are carried through the bunkers None How are they protected                     Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times YesAre the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges YesIs the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Main Deck.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 toeach boiler                      Area of each valve                      Pressure to which they are adjusted 185 lbs Are they fitted with easing gear YesSmallest distance between boilers on stowage and bunkers or woodwork 4' 6" 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                     Working pressure of furnace by the rules                      bottom                      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 andthickness 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                     

W624-0064



*If so, is a report now forwarded?*

*The foregoing is a correct description,*

*Manufacturer.*

Dates of Survey while building { During progress of work in shops - - } 1922 May 25-27 Jun 3 8-13 16-19-20 21-24  
 { During erection on board vessel - - } \_\_\_\_\_  
 Total No. of visits 10 Is the a

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* 16-6-22 *Engine and boiler seatings* 8-5-22 *Engines holding down bolts* 3-6-22

*Completion of pumping arrangements* 21-6-22 *Boilers fixed* 13-6-22 *Engines tried under steam* 24-6-22

*Completion of fitting sea connections* 8-5-22 *Stern tube* 15-5-22 *Screw shaft and propeller* 16-5-22

*Main boiler safety valves adjusted* 20-6-22 *Thickness of adjusting washers* PBPV <sup>19"</sup> 64 PBSV <sup>19"</sup> 64 SBPV <sup>19"</sup> 64 SBSV <sup>21"</sup> 64

*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* S D. Copper *Test pressure* 360 lbs.

*Is an installation fitted for burning oil fuel* No *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.)

These engines, (London Rpt N<sup>o</sup> 83846) and boilers (Greenock Rpt N<sup>o</sup> 14994) have been securely fitted on board and tried under steam with satisfactory results.

It is submitted that this vessel is eligible for a record of  $\pm$  LMC 6-22 in the Register Book.

It is submitted that  
this vessel is eligible for  
THE RECORD.

7 L. M. C. - 6. 22. C. L.

L. Y 7/7/22. DPA

The amount of Entry Fee	... £	1	: -	:	When applied for,
Special <i>Fitting out</i>	... £	4	: 2	:	4/7/22 at GPK
Donkey Boiler Fee	... £	—	: —	:	When received,
Travelling Expenses (if any)	£	3	: 5	:	11/7/22

David C Barr.  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned + LMC 622

WACHSBERG STAY,  
WINTER.  
4.9.22  
\* Dated 4/7/22

Lloyd's Register  
Foundation