

REPORT ON MACHINERY.

REC'D NEW YORK June 19 1918

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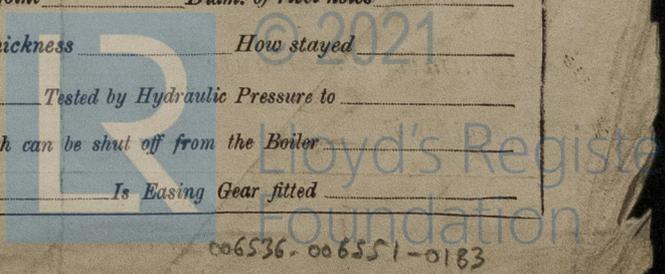
To in Survey held at Godwick Ont. Date, First Survey Aug 9th 17 Last Survey May 27th 1918
 on the J.M.B. Inguie R25 War Steamer (Number of Visits 19)
 Master J.L. Howell Built at Victoria By whom built Cameron, Genoa Mill Tons Gross 2334.82 Net 1415.68
 Engines made at Godwick By whom made National S.B. Co. when made 1918
 Boilers made at Toronto By whom made Polson Iron Works when made 1918
 Registered Horse Power 1400 Owners Coxton Greig & Co Port belonging to Victoria B.C.
 Net Horse Power as per Section 28 323 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Inverted triple expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 20-33-54 Length of Stroke 40 Revs. per minute _____ Dia. of Screw shaft as per rule 11.7 Material of screw shaft Steel
 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
 the propeller boss Yes If the liner is in more than one length are the joints burned Yes 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 4'-1"
 Dia. of Tunnel shaft as per rule 10.39 Dia. of Crank shaft journals as per rule 10.9 Dia. of Crank pin 11 1/2 Size of Crank webs 22x7 Dia. of thrust shaft under
 as fitted 10.5 as fitted 11
 No. of Blades _____ State whether moveable _____ Total surface _____
 No. of Feed pumps 2 Diameter of ditto 3.5 Stroke 20 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 3.5 Stroke 20 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines _____ Sizes of Pumps _____ No. and size of Suctions connected to both Bilge and Donkey pumps _____
 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 _____
 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 _____ 3 Element
 Total Heating Surface of Boilers 52804 Is Forced Draft fitted Yes No. and Description of Boilers 2 Howden Patent
 Working Pressure 185 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 _____
 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 _____
 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 _____
 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 _____
 Thickness 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 _____
 Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and _____
 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 _____
 Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
 Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Pressure to which each is adjusted _____ Is Easing Gear fitted _____



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied: - Two top end bolts & nuts, Two bottom end bolts & nuts, Two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of circulating pump valves, one set of air pump valves, one set of feed & one set of bilge pump valves, 25 condenser tubes, one set of piston rings, assorted bolts & nuts.

The foregoing is a correct description,

THE NATIONAL SHIPBUILDING COMPANY, LIMITED

P. Corrie

SECY-TREAS

Manufacturer.

Dates of Survey while building: During progress of work in shops - Aug 9, Nov 14, Dec 11, Jan 1, 15, 31, Feb 15, Mar 6, 18, 24, 26, Apr 10, 21, 29, May 2, 3, 14, 16, 27. During erection on board vessel - - - - - Total No. of visits 19.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts - Cylinders Apr 28, Slides Apr 28, Covers May 25, Pistons May 25, Rods Apr 28, Connecting rods Apr 28, Crank shaft Apr 29, Thrust shaft, Tunnel shafts, Screw shaft, Propeller, Stern tube Jan 31, 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, 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 Yes If so, state name of vessel B 24.

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been constructed under special survey, is of good material & workmanship & will be eligible for record with date when the survey is completed. It has been shipped to Vancouver to be fitted in a wooden vessel.

To complete the survey: Engines to be fitted & secured a board with auxiliary & trimmings according to the Rules.

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 ... \$ 15 : 00 : When applied for, 13 Special ... £ 60 : 00 : June 10 1918 Donkey Boiler Fee ... £ : : : When received, Travelling Expenses (if any) £ 89 : 75 : 17-4-19 1919

Committee's Minute

Assigned

TUE 8-APR. 1919

See Vic A.C. vol no 801

John W. Gwynne

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 22. AUG. 1919

TUE. 10 FEB. 1920

FRI. 12 FEB. 1919

FRI. APR. 10 1921

TUE. OCT. 12 1920

TUE. 19 JUL. 1921

Lloyd's Register Foundation