

REPORT ON MACHINERY

No. 40

REC'D NEW YORK Jan. 15-1919
REC'D NEW YORK May 22-1918

Received at London Office

JAN. 1919

Survey Report May 17th 1918 When Made: In or Out of Office May 20th 1918 Port of Toronto

Survey held at Toronto Date, First Survey Feb. 20th 1918 Last Survey 19

on the G.M.B. R No. 11 "Nau Casco" (Number of Vessels) Tons Gross 2318.61 Net 1424.71
G. Mann Built at Quebec St. By whom built Weston Connor Boyd When built 1918

made at Toronto By whom made Canadian Atlas-Calmers when made 1918

ed Horse Power Owners Port belonging to

orse Power as per Section 28 322 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ES, &c.—Description of Engines Inverted Triple Expansion No. of Cylinders 3 No. of Cranks 3

Cylinders 20" x 33" x 54" Length of Stroke 40 Revs. per minute 70 Dia. of Screw shaft as per rule 11.7 as fitted 12 Material of screw shaft O.H. Steel

crew 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 Yes 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

re fitted, is the shaft lapped or protected between the liners Length of stern bush 4' 1"

2.2 Tunnel shaft as per rule 10.39 Dia. of Crank shaft journals as per rule 10.9 as fitted 12.2 Dia. of Crank pin 11/8 Size of Crank webs 6.5 x 2.1 Dia. of thrust shaft under

47.5 Dia. of screw 14.6 Pitch of Screw 15.3 No. of Blades 4 State whether movable Solid Total surface 66.4 f

Feed pumps 2 Diameter of ditto 3.5 Stroke 20 Can one be overhauled while the other is at work Yes

Bilge pumps 2 Diameter of ditto 3.5 Stroke 20 Can one be overhauled while the other is at work Yes

Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps

ine Room In Holds, &c.

Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room of 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 Are they Valves or Cocks

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

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

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 5280 f Is Forced Draft fitted Yes No. and Description of Boilers 2 Howden

ng Pressure 185 lb. 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

at distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates

ess Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

eam Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

ntages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

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

ng 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 End plates in steam space:

ial of stays Area at smallest part Area supported by each stay Working pressure by rules Material of stays

ial Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom

at smallest part Area supported by each stay Working pressure by rules Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

ness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

ter 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

ness of girder at centre Length as per rule Distance apart Number and pitch of stays in each

ng. ing pressure by rules Steam dome: description of joint to shell % of strength of joint

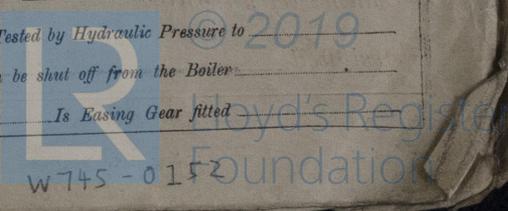
eter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

of rivets Working pressure of shell by rules Crown plates Thickness How stayed

ERHEATER. 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

r of Safety Valve 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: - 2 Connecting rod top end bolts + nuts
2 Connecting rod bottom end bolts + nuts 2 Main bearing bolts + nuts.
1 Set coupling bolts + nuts. 1 Set feed pump valves.
1 Set bilge pump valves. 1 Set piston rings for cylinder.
1 Set air pump valves. 1 Set circulating pump valves. 1 Propeller

The foregoing is a correct description,

Canadian Ellis Chalmers Ltd Manufacturer.

Dates of Survey while building { During progress of work in shops -- Feb. 20, 26. Mar. 6, 8, 15, 23, 28. April 3, 12, 17, 20, 22, 24, 26, 30. May, 2, 6, 8, 16. }
{ During erection on board vessel --- }
Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts - Cylinders 22, 4, 18 Slides 22, 4, 18 Covers 6, 5, 18 Pistons 6, 5, 18 Rods 6, 5

Connecting rods 2, 5, 18 Crank shaft 2, 8, 18 Thrust shaft 2, 5, 18 Tunnel shafts 2, 5, 18 Screw shaft 2, 5, 18 Propeller

Stern tube 23, 3, 18 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 OH Steel Identification Mark on Do. 336, 2, 5, 18, RCB Material of Thrust shaft OH Steel Identification Mark on Do. 337, 2, 5, 18, RCB

Material of Tunnel shafts OH Steel Identification Marks on Do. 339, 2, 5, 18, RCB Material of Screw shafts OH Steel Identification Marks on Do. 340, 2, 5, 18, RCB

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. This machinery has been

constructed under Special Survey. It is of good material + workmanship and is eligible in our opinion for record with date when the survey is completed. It has now been shipped to Vancouver to be fitted in a wooden vessel

To complete the survey: - Engines to be fitted and secured on board with auxiliaries + connections according to the Rules

Transmit to Vancouver
RMS

The amount of Entry Fee ... £ 15 : 00 :
Special ... £ 60 : 00 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, May 15, 1918
When received, 27, 2, 19

Robert C. Blyth & Son, Ld. Engineers
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

TUE. 11 FEB. 1916

TUE. MAY. 4 1920

Assigned

TUE. APR. 27 1920



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