

REPORT ON MACHINERY.

No. 17584.

Received at London Office

WED. AUG. 4 1920

Date of writing Report 13 Dec 1919 When handed in at Local Office 17 Dec 1919 Port of Greenock

To. in Survey held at Greenock Date, First Survey 2nd September 1919 Last Survey 15 Dec 1919
Reg. Book. on the vessel named Margaret Coughlan (Number of Visits 29)

Master Built at Vancouver By whom built J. Coughlan & Son Tons Gross Not When built

Engines made at Greenock By whom made John S. Kincaid & Co. when made 1919

Boilers made at By whom made when made

Registered Horse Power Owners Port belonging to

Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Triple Compound No. of Cylinders Three No. of Cranks Three

Dia. of Cylinders 27-44-73 Length of Stroke 48 Revs. per minute Dia. of Screw shaft as per rule Material of screw shaft as fitted

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 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

liners 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 13.99 Dia. of Crank pin 14.12 Size of Crank webs 28.9 Dia. of thrust shaft under

Collars Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

No. of Feed pumps Two Diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work 24

No. of Bilge pumps Two Diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work 24

No. of Donkey Engines Sizes of Pumps 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

That 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

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 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 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

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

No. 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 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

U11331-0235

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR.

State the articles supplied:—

*The 1st and 2nd. The bottom end bolt. The main
bearing bolt. One set coupling bolt. One set feed pump valve. One set Belga pump
valve. One set escape valve springs. Both ends.*

The foregoing is a correct description,

W. H. H. H.

Manufacturer.

Dates
of Survey
while
building

During progress of
work in shops --
During erection on
board vessel --
Total No. of visits

(1919) September 2. 5. 12. 16. 19. 22. 26. 30. October: 2. 7. 13. 14. 16. 22. 28. 30. November: 3. 5. 7. 11.
13. 17. 18. 24. 28. December: 2. 8. 12. 15.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 28/11/19 Slides 24/11/19 Covers 28/11/19 Pistons 24/11/19 Rods 14/10/19

Connecting rods 28/11/19 Crank shaft 14/10/19 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 Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft Identification Mark on Do. 359 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. Workmanship good.)

The machinery of this vessel up to the end of the crank shaft

has been constructed under special survey, and will be forwarded to

Vancouver where it will be fitted on board

The amount of Entry Fee ... £ 3 : 0 :
Special ... £ 22 : 19 :
Donkey Boiler Fee ... £ 28 : 19 :
Travelling Expenses (if any) £ : :
When applied for, 18th Dec, 1919.
When received, 21/1/20

James James.

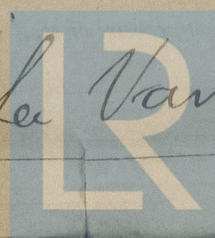
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Deferred

FRI. SEP. 3 1920



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Foundation