

REPORT ON MACHINERY.

Port of Glasgow

Received at London Office UES. 22 NOV 1904

No. in Survey held at Glasgow

Date, first Survey 24th June

Last Survey Nov 15th 1904

Reg. Book.

on the T.S.S. "Montcalm"

(Number of Visits)

Master

Built at Glasgow By whom built Hopkin & Miller

Gross Tons }
Net Tons }
When built 1904

Engines made at Paisley

By whom made Fleming & Ferguson

when made 1904

Boilers made at Renfrew

By whom made Babcock & Wilcox

when made 1904

Registered Horse Power

Owners Canadian Government Port belonging to Ottawa

Nom. Horse Power as per Section 28 840

Is Refrigerating Machinery fitted No

Is Electric Light fitted Yes - Chartwell

ENGINES, &c.—Description of Engines

Twin screw triple

No. of Cylinders 6

No. of Cranks 6

Dia. of Cylinders 23 1/2 38 64

Length of Stroke 42

Revs. per minute 82

Dia. of Screw shaft

as per rule 12.9

Material of slut

as fitted 13 3/4 screw shafts

Is the screw shaft fitted with a continuous liner the whole length of the stern tube (No)

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 —

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 painted

Length of stern bush 5-8 3/4

Dia. of Tunnel shaft

as per rule 12.11

as fitted 12 1/4

Dia. of Crank shaft journals

as per rule 13.01

as fitted 13 3/4

Dia. of Crank pin 12 3/4

Size of Crank webs 8 1/2

collars 13

Dia. of screw 12-6

Pitch of screw 22-0

No. of blades 4

State whether moveable Yes

Total surface 50

each

No. of Feed pumps 4

Diameter of ditto 3 1/2

Stroke 24

Can one be overhauled while the other is at work Yes

No. of Bilge pumps 4

Diameter of ditto 4 1/2

Stroke 24

Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2

Sizes of Pumps 9x6x10 7-6

Ant. No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 1 to Rehold

4-2 1/2

In Holds, &c. Fore hold 2-2 1/2

Bunker 2-2 1/2

After hold 1-2 1/2

Tunnel 1-2 1/2

No. of bilge injections 2

sizes 5

Connected to condenser, or to circulating pump Yes

Is a separate donkey suction fitted in Engine room & size Yes. 3"

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 Above

Are 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 Yes

What pipes are carried through the bunkers Food Suctions

How are they protected Wood covering

Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times Yes

Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges Yes

When were stern tube, propeller, screw shaft, and all connections examined in dry dock Before launch

Is the screw shaft tunnel watertight Yes

Is it fitted with a watertight door Yes

worked from Top gratings

Is Yes

BOILERS, &c.— (Letter for record)

Total Heating Surface of Boilers 12800

Is forced draft fitted Used stokehold

No. and Description of Boilers Four Babcock & Wilcox

Working Pressure 200

Tested by hydraulic pressure to 400 lbs

Date of test 28-10-04

Can each boiler be worked separately Yes

Area of fire grate in each boiler 87 1/4

No. and Description of safety valves to each boiler 2 Cockburn

Area of each valve 8.29

Pressure to which they are adjusted 205 lbs

Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork Stokehold

Mean dia. of boilers 3-6

Length 15-10 1/2

Material of shell plates slut

Thickness 9/16 7/16

Range of tensile strength 24-27

Are they welded or flanged No

Descrip. of riveting: cir. seams R. L.

long. seams R. L. TBS.

Diameter of rivet holes in long. seams 7/8

Pitch of rivets 3 1/32

Lap of plates or width of butt straps 7 1/4

Per centages of strength of longitudinal joint

rivets 103

Working pressure of shell by rules 200 lbs

Size of manhole in shell 15 x 11

Size of compensating ring Flanged

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length 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

Pitch of stays to ditto: Sides

Back

Top

Material of stays

Diameter 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

Diameter 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

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

Working pressure by rules

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

W1537-0122

DONKEY BOILER— No. Description *None*

Made at By whom made When made Where fixed
Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves
No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler
Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile strength
Descrip. of riveting long seams Dia. of rivet holes Whether punched or drilled Pitch of rivets
Lap of plating Per centage of strength of joint Rivets Thickness of shell crown plates Radius of do. No. of Stays to do.
Dia. of stays. Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint
Thickness of furnace crown plates Stayed by Working pressure of shell by rules
Working pressure of furnace by rules Diameter of uptake Thickness of uptake plates Thickness of water tubes

SPARE GEAR. State the articles supplied:— 1 Section crank shaft, 8 propeller blades, 2 sets studs & nuts for propeller blades, set HP piston springs, set air pump valves, set feed & bilge pump valves, pair of clamps for connecting broken shaft, etc., & the bolts & nuts required by the Rules
The foregoing is a correct description, Fleming & Ferguson, Limited

Manufacturer. *J. Fleming & Ferguson* Managing Director

Dates of Survey while building
During progress of work in shops - - 1904 June 24, July 1, 5, 8, Aug 2, 8, 13, 29, 30, Sept 5, 14, 21, 22
During erection on board vessel - - 23, 27, 28, 30, Oct 3, 4, 12, 13, 17, 18, 21, 27, 28, 31, Nov 4, 10, 15.
Total No. of visits 30

Is the approved plan of main boiler forwarded herewith Yes
" " " donkey " " " None

General Remarks (State quality of workmanship, opinions as to class, &c.)

The engines & boilers of this vessel have been constructed under special survey & are of good materials & workmanship. They have been securely fitted on board & satisfactorily tried under steam.

This vessel is in our opinion eligible to have notation " * L.M.C. 11.04. Water Tube Boilers " in the Register-Book Boilers to be surveyed annually.

It is submitted that this vessel is eligible for THE RECORD. * L.M.C. 11.04 F.D. ELECK 19HT Water tube boilers Subject to annual Survey.

W. H. Gardiner Smith
22.11.04
22.11.04

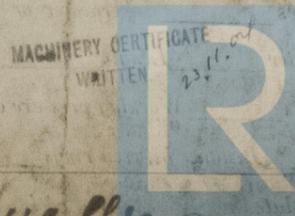
The amount of Entry Fee.. £ 3 : - :
Special £ 62 : :
Donkey Boiler Fee £ : :
Travelling Expenses (if any) £ : :
When applied for, 21 NOV 1904
When received, 23/11/1904

W. H. Gardiner Smith, A.M.I.E.S.
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute Glasgow 21 NOV 1904

Assigned

+ L.M.C. 11.04.
"Water Tube Boilers"
Boilers to be surveyed annually.



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