

Received at London Office

Date of writing Report 4. 4. 1922 When handed in at Local Office 4. 4. 1922 Port of Glasgow
No. in Survey held at Dalnair Date, First Survey 18. 1. 1921 Last Survey 6 April 1922
Reg. Book. on the S.S. "Saint Jerome" (Number of Visits) Gross 4205 Net 2312
Master Built at Dalnair By whom built Tom Beardmore & Co. Ltd. When built 1922
Engines made at Dalnair By whom made Tom Beardmore & Co. Ltd. (624) when made 1922
Boilers made at Dalnair By whom made Tom Beardmore & Co. Ltd. (624) when made 1922
Registered Horse Power Owners The Association Petroliere Port belonging to Le Havre
Nom. Horse Power as per Section 28 349 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 23" 36" 58" Length of Stroke 42" Revs. per minute 74 Dia. of Screw shaft as per rule 12.75" Material of screw shaft as fitted 13.75" 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
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 Length of stern bush 4' 10"
Dia. of Tunnel shaft as per rule 11.3" Dia. of Crank shaft journals as per rule 11.875" Dia. of Crank pin 12 1/4" Size of Crank webs 8" 22 1/2" Dia. of thrust shaft under
collars 12 1/4" Dia. of screw 15.9" Pitch of Screw 15-8" No. of Blades 4 State whether moveable yes Total surface 80 ft²
No. of Feed pumps 2 Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work yes
No. of Bilge pumps 2 Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work yes
No. of Donkey Engines 3 Sizes of Pumps (2) 9 1/2" x 7" x 18" 8" x 9" x 10" No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room (3) 3 1/2" In Holds, &c. (1) 1 1/2" in well in boiler room

No. of Bilge Injections 1 sizes 7 1/2" 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 none
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 below
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 Steam heating pipes How are they protected
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
Is the Screw Shaft Tunnel watertight none Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record 7 (7) Manufacturers of Steel Tom Beardmore & Co. Ltd.)

Total Heating Surface of Boilers 5548 ft² Is Forced Draft fitted yes No. and Description of Boilers 2 Single ended
Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 27/10/21 17/11/21 No. of Certificate 15937 15954
Can each boiler be worked separately yes Area of fire grate in each boiler No. and Description of Safety Valves to
each boiler 2 Spring loaded Area of each valve 11.04 ft² Pressure to which they are adjusted 185 Are they fitted with easing gear yes
Smallest distance between boilers or uptakes and bunkers or woodwork well clear Mean dia. of boilers 14.6 Length 12-3 Material of shell plates steel
Thickness 1 3/32 Range of tensile strength 28 to 32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double lap
long. seams triple butt Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 8 3/4 Lap of plates or width of butt straps 19 3/8
Per centages of strength of longitudinal joint rivets 97.5 Working pressure of shell by rules 184 Size of manhole in shell 16" x 12"
Size of compensating ring 2' 9" x 2' 5" No. and Description of Furnaces in each boiler 3 Doughton Material steel Outside diameter 42 1/4"
Length of plain part top Thickness of plates crown 3/2 Description of longitudinal joint welded No. of strengthening rings
bottom Working pressure of furnace by the rules 180 Combustion chamber plates: Material steel Thickness: Sides 1/16 Back 1/16 Top 1/16 Bottom 1/16
Pitch of stays to ditto: Sides 9 1/2" x 9 1/2" Back 10 x 9 Top 9 x 9 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181
Material of stays iron Area at smallest part 2.03 Area supported by each stay 90 ft² Working pressure by rules 180 End plates in steam space:
Material steel Thickness 1 1/8 Pitch of stays 19 x 17 How are stays secured 2 nuts Working pressure by rules 192 Material of stays steel
Area at smallest part 5.92 Area supported by each stay 232 Working pressure by rules 192 Material of Front plates at bottom steel
Thickness 15/16 Material of Lower back plate steel Thickness 3/32 Greatest pitch of stays 14 1/4 Working pressure of plate by rules 182
Diameter of tubes 2 1/2 Pitch of tubes 3 3/4 x 3 3/8 Material of tube plates steel Thickness: Front 15/16 Back 7/8 Mean pitch of stays 11 1/16
Pitch across wide water spaces 13 1/2 Working pressures by rules 182 Girders to Chamber tops: Material steel Depth and
thickness of girder at centre 9 5/8 x 3/4 length as per rule 33 1/16 Distance apart 7 1/2 Number and pitch of stays in each (3) 9"
Working pressure by rules 181 Steam dome: description of joint to shell none % 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 none 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

© 2021

Lloyd's Register
Foundation

IS A DONKEY BOILER FITTED? *yes*

If so, is a report now forwarded? *yes*

SPARE GEAR.

State the articles supplied:—

2 Top end bolts and nuts, 2 Bottom end bolts and nuts, 2 main bearing bolts and nuts, 1 set of coupling bolts and nuts, fuel valve pump valves, iron, bolts and nuts of various sizes.

The foregoing is a correct description,

For WILLIAM BEARDMORE & CO., LIMITED

W. Beaton

Manufacturer.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits

1921 Jan 18 Feb 8 9. Mar 8 17 Apr 5 15 26 May 12 19 27 30 Jun 3 Aug 9 12 16 19 24 31 Sep 13 20 27 30 Oct 10 20 27

Is the approved plan of main boiler forwarded herewith *yes*

Dates of Examination of principal parts—Cylinders *10/10/21* Slides *28/10/21* Covers *10/10/21* Pistons *28/10/21* Rods *28/10/21*

Connecting rods *28/10/21* Crank shaft *28/11/21* Thrust shaft *28/11/21* Tunnel shafts *—* Screw shaft *28/11/21* Propeller *28/11/21*

Stern tube *28/11/21* Steam pipes tested *24/11/21* Engine and boiler seatings *24/11/21* Engines holding down bolts *24/11/22*

Completion of pumping arrangements *24/3/22* Boilers fixed *24/11/22* Engines tried under steam

Completion of fitting sea connections *27/2/22* Stern tube *27/3/22* Screw shaft and propeller *27/3/22*

Main boiler safety valves adjusted *24/3/22* Thickness of adjusting washers *Port Boiler 13/32, S. Boiler 13/32, 3/8"*

Material of Crank shaft *Steel* Identification Mark on Do. *28/11/21* Material of Thrust shaft *Steel* Identification Mark on Do. *28/11/21*

Material of Tunnel shafts *Iron* Identification Marks on Do. *—* Material of Screw shafts *Steel* Identification Marks on Do. *28/11/21*

Material of Steam Pipes *Steel* Test pressure *520 lbs*

Is an installation fitted for burning oil fuel *yes* Is the flash point of the oil to be used over 150°F. *yes*

Have the requirements of Section 49 of the Rules been complied with *yes*

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *S.S. British Enterprise*

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

These engines and boilers have been built under special survey, the materials and workmanship are of good description, they have been well fitted on board. This machinery is in my opinion eligible to have notification + L.M.C 4.22. and fitted for oil fuel F.P. above 150°F in the Register Book. Subject to a satisfactory trial of all machinery.

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

F.L.M.C. - 4.22. F.D. C.L.

Fitted for Oil Fuel, 4.22, F.P. above 150°F.

(See wire 7/4/22 re subject)

The amount of Entry Fee ... £ 5 :

Special ... £ 77 :

Donkey Boiler Fee ... £ :

Travelling Expenses (if any) £ :

When applied for.

25/3/22

When received.

29.3.22

A.M. McEand

Engine Surveyor to Lloyd's Register of Shipping.

Committee's Minute

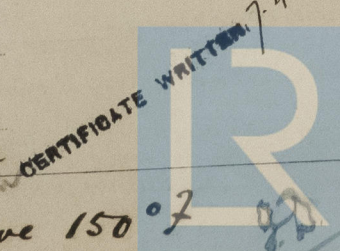
Assigned *+ L.M.C 4.22*

subject to

Fitted for oil fuel 4.22 F.P. above 150°F

GLASGOW

APR 1922



© 2021

Lloyd's Register Foundation