

REPORT ON MACHINERY

No. 31141
MON. 10 JUN. 1919

Received at London Office

Writing Report 7/6/19 When handed in at Local Office 7/6/19 Port of Hull
Survey held at Hull Date, First Survey 24-9-18 Last Survey 5/6/19
Book. LATELY (LEGARA LEROSA) S.T.T. JAMES. JOHNSON. (Number of Visits 28
on the Tons { Gross 325
ster Built at Hull By whom built Buchanan & Co Ltd Net 149
Engines made at Hull By whom made Messrs J. Holmes & Co Ltd (1918) When built 1919
Machinery made at Hull By whom made Do when made 1919
Registered Horse Power Owners James Johnson. Port belonging to Scarborough.
n. Horse Power as per Section 28 87. Is Refrigerating Machinery fitted for cargo purposes - Is Electric Light fitted -

GINES, &c.—Description of Engines Triple expansion. No. of Cylinders 3. No. of Cranks 3.
a. of Cylinders 13"-23"-37" Length of Stroke 28" Revs. per minute 115 Dia. of Screw shaft as per rule 8.29" Material of screw shaft as fitted 8.29" steel
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
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
ers are fitted, is the shaft lapped or protected between the liners No lined (Vickers type) Length of stern bush 36"
a. of Tunnel shaft as per rule 7.04" Dia. of Crank shaft journals as per rule 7.39" Dia. of Crank pin 7 1/2" Size of Crank webs 18x11" Dia. of thrust shaft under
bars 7 1/2" Dia. of screw 9-7 1/2" Pitch of Screw 11-0 No. of Blades 4 State whether moveable No Total surface 33 sq ft
a. of Feed pumps one Diameter of ditto 2 1/2" Stroke 14 1/2" Can one be overhauled while the other is at work -
a. of Bilge pumps one Diameter of ditto 2 1/2" Stroke 14 1/2" Can one be overhauled while the other is at work -
a. of Donkey Engines one 8/10 g.p.s. sizes of Pumps 6", 4 1/2" x 6" duplex No. and size of Suctions connected to both Bilge and Donkey pumps
Engine Room Two 2" dia In Holds, &c. one 2" dia in each compartment
all suction also connected to ejector.
a. of Bilge Injections one sizes 3 1/2" Connected to condenser, to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 3 g.p.s.
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 Yes
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 Fuel injection & air line How are they protected Strong casing.
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 - Is it fitted with a watertight door worked from -

OILERS, &c.—(Letter for record S.) Manufacturers of Steel Pat Elliot & Co. & James & Sons.
Total Heating Surface of Boilers 1440 sq ft Is Forced Draft fitted No No. and Description of Boilers one single ended multi
Working Pressure 200 lbs/sq in Tested by hydraulic pressure to 400 lbs/sq in Date of test 30/12/18 No. of Certificate 3341
Can each boiler be worked separately - Area of fire grate in each boiler 48 sq ft No. and Description of Safety Valves to
each boiler Two spring loaded Area of each valve 4.9 Pressure to which they are adjusted 205 lbs/sq in Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers on woodwork 8" blk lagged Mean dia. of boilers 165" Length 10-8" Material of shell plates Steel
19.33 Thickness 1 1/4" Range of tensile strength 28-32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams double
long. seams TR. JBS. Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 5/8" Lap of plates or width of butt straps 18"
Per centages of strength of longitudinal joint rivets 85.9% Working pressure of shell by rules 202. Size of manhole in shell 16" x 12"
even as plate 85.5% Size of compensating ring 7" x 1 1/8" No. and Description of Furnaces in each boiler Three plain Material Steel Outside diameter 40"
Length of plain part top 78 1/2" bottom 69" Thickness of plates crown 3 1/8" bottom 3 1/8" Description of longitudinal joint welded. No. of strengthening rings -
Working pressure of furnace by the rules 205 lbs/sq in Combustion chamber plates: Material Steel Thickness: Sides 3/4" Back 3/2" Top 3/4" Bottom 3/4"
Pitch of stays to ditto: Sides 10" x 8" Back 9 1/2" x 8 1/2" Top 11" x 8" If stays are fitted with nuts or riveted heads No Working pressure by rules 208
Material of stays Steel Area at smallest part 2.07 Area supported by each stay 88" Working pressure by rules 211 End plates in steam space:
Material Steel Thickness 1 1/2" Pitch of stays 19" x 17 1/2" How are stays secured JN & W. Working pressure by rules 210 lbs/sq in Material of stays Steel
Area at smallest part 7.5" Area supported by each stay 335" Working pressure by rules 235 Material of Front plates at bottom Steel
Thickness 1 1/8" Material of Lower back plate Steel Thickness 1 1/8" Greatest pitch of stays 13 1/2" x 9 1/8" Working pressure of plate by rules 216
Diameter of tubes 3 1/2" Pitch of tubes 4-8" Material of tube plates Steel Thickness: Front 1 1/8" Back 1 1/8" Mean pitch of stays 10"
Pitch across wide water spaces 14" Working pressures by rules 275 lbs/sq in Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 11 1/8" x 1 1/2" Length as per rule 36.2. Distance apart 11" Number and pitch of stays in each 3 x 8"
Working pressure by rules 201 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 -

IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— *Two top end bolts & nuts, two main bearing bolts & nuts, two bottom end bolts & nuts, one set coupling bolts & nuts, one set air feed & bilge pump valves, 6 junk ring thrust & nuts, one main & one duplex check valve, two valves for duplex pump, one safety valve spring, three condenser tubes, one set fire bar, & a quantity of bolts & nuts of various sizes.*

The foregoing is a correct description,

pro *CHARLES D. HOLMES & Co. Ltd.*
I Arthur Holmes

Manufacturer.

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

1918 Sep 24 Oct 1-2-7-9-14-18-21-24-29 Nov 8-15-22-30 Dec 6-7-10-18-21-24
30-31-1919 Jan 21-30 May 20-30 Jun 8-5
28

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders *30/11/18* Slides *31/12/18* Covers *30/11/18* Pistons *15/12/18* Rods *18/12/18*
Connecting rods *18/12/18* Crank shaft *18/12/18* Thrust shaft *24/12/18* Tunnel shafts *2/10/18* Screw shaft *2/10/18* Propeller *2/10/18*
Stern tube *2/10/18* Steam pipes tested *20/5/19* Engine and boiler seatings *9/10/18* Engines holding down bolts *5/6/19*
Completion of pumping arrangements *5/6/19* Boilers fixed *30/5/19* Engines tried under steam *5/6/19*
Completion of fitting sea connections *9/10/18* Stern tube *9/10/18* Screw shaft and propeller *9/10/18*
Main boiler safety valves adjusted *30/5/19* Thickness of adjusting washers *A-3" F-3"*
Material of Crank shaft *Steel* Identification Mark on Do. *2190* Material of Thrust shaft *Steel* Identification Mark on Do. *2194*
Material of Tunnel shafts *Steel* Identification Marks on Do. *2189* Material of Screw shafts *Steel* Identification Marks on Do. *2189*
Material of Steam Pipes *S.D. Copper* Test pressure *400 lbs*

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

Heavy class

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

The engines & boilers of this vessel have been built under special survey & the material & workmanship are good. On completion they were examined while running full power trials in the Harbour & found satisfactory. The machinery throughout is now in good & efficient condition & eligible in my opinion to have the vessel L.M.C.-6-19 marked in the British Register Book.

+ L.M.C. 6-19

Roll

12.6.19

The amount of Entry Fee ... £ *2-0-0*
Special ... £ *26-2-0*
Donkey Boiler Fee ... £ *-*
Travelling Expenses (if any) £ *-*

When applied for,

7/6/19

When received,

28/6/19

Committee's Minute

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.



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