

Rpt. 4.

REPORT ON MACHINERY.

No. 40302

Date of writing Report 30.8.1920 When handed in at Local Office 30.8.1920 Port of Glasgow Received at London Office WED SEP. 1 1920

No. in Survey held at Glasgow Date, First Survey 18th Sept 1917 Last Survey 19th Aug 1920
Reg. Book. on the TSS GLENOGLE (Coal Eng) (Number of Visits 160)

Master Built at Glasgow By whom built Harland & Wolff Ltd, (No 502) Tons Gross Not
Engines made at Glasgow By whom made Harland & Wolff Ltd, (No 502) When built 1920
Boilers made at Inman By whom made Cochran & Co Ltd when made 1920

Registered Horse Power Owners Glen Line Ltd Port belonging to Glasgow

om. Horse Power as per Section 28 1144 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

GINES, &c.—Description of Engines Twin Screw Diesel 4 Stroke Cycle No. of Cylinders 16 No. of Cranks 16
Dia. of Cylinders 29 3/8 in Length of Stroke 11 5/8 in Revs. per minute 115 Dia. of Screw shaft as per rule 14 3/8 in Material of screw shaft as fitted 15 3/8 in Steel

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
the propeller boss Yes If the liner is in more than one length are the joints burned continuous 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 Yes whole length of two
ers are fitted, is the shaft lapped or protected between the liners Length of stern bush 5-8 in

Dia. of Tunnel shaft as per rule 13 3/8 in Dia. of Crank shaft journals as per rule 4 5 1/2 in Dia. of Crank pin 4 5 1/2 in Size of Crank web 500 x 900 Dia. of thrust shaft under
lars 15 in Dia. of screw 15-0 in Pitch of Screw 12-0 in No. of Blades 3 State whether moveable Yes Total surface 60 ft

No. of Feed pumps — Diameter of ditto 10 in Stroke 10 in Can one be overhauled while the other is at work —
"Ballast (1) double Diameter of ditto 8 in Stroke 8 in Can one be overhauled while the other is at work Yes
No. of Bilge pumps (2) double Diameter of ditto 8 in Stroke 8 in Can one be overhauled while the other is at work Yes
No. of Donkey Engines 2 B.H.P. Diesel engines driven by dynamo, 2 electric driven air compressors, 1 steam driven air
compressor (Starting) and electric driven as per list attached hereto. No. and size of Suctions connected to both Bilge and Donkey pumps
Engine Room (2) 3 1/2 in (2) 5 in (1) 2 1/2 in In Holds, &c. No 1 (3) 3 1/2 in No 2 (3) 3 1/2 in No 3 (3) 3 1/2 in
No 4 (2) 3 1/2 in No 5 (2) 3 1/2 in No 6 (3) 3 1/2 in Tunnel well (1) 3 1/2 in

No. of Bilge Injections — sizes — Connected to condenser, or to circulating pump — Is a separate Donkey Suction fitted in Engine room & size Yes 5 in

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 stowage 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 None 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 Yes Is it fitted with a watertight door Yes worked from upper deck

HEATERS, &c.—(Letter for record) Manufacturers of Steel
Manoeuvring air Reservoir See Separate Gls Rpt No 39822

Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers 3 air reservoirs
Working Pressure 356 lb Tested by hydraulic pressure to 7 1/2 lb Date of test 25.3.20 29.3.20 15.9.20 15.20.6
No. of Certificate 15211

Is each boiler worked separately — Area of fire grate in each boiler — No. and Description of Safety Valves to
each boiler 2 Spring loaded Area of each valve 7.067 in Pressure to which they are adjusted 356 lb Are they fitted with easing gear No

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
No. of 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 plate 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
bottom Thickness of plates bottom Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
No. 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
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
No. 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
of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
No. of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

002085-002693-0135

IS A DONKEY BOILER FITTED? *Yes*

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

SPARE GEAR. State the articles supplied:—

See separate list attached hereto.

The foregoing is a correct description,

For HARLAND & WOLFF, LTD.

MANAGER FINNIESTON WORKS

Manufacturer.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits *160*

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders *4.6.19* Slides — Covers *1.9.19* Pistons *1.9.19* Rods *4.6.19*

Connecting rods *1.9.19* Crank shaft *15.10.19* Thrust shaft *13.1.20* Tunnel shafts *13.1.20* Screw shaft *13.1.20* Propeller *4.2.20*

Stern tube *4.2.20* Steam pipes tested — Engine and boiler seatings *15.3.20* Engines holding down bolts *27.5.20*

Completion of pumping arrangements *3.8.20* Boilers fixed *26.6.20* Engines tried under steam *12.7.20 3.8.20. 19.8*

Completion of fitting sea connections *24.3.20* Stern tube *24.3.20* Screw shaft and propeller *24.3.20*

Main boiler safety valves adjusted *3.8.20* Thickness of adjusting washers *pt 11 " 19 " 16 " 32 "*

Material of Crank shaft *Steel* Identification Mark on Do. *5.10.19 JE* Material of Thrust shaft *Steel* Identification Mark on Do. *△*

Material of Tunnel shafts *Steel* Identification Marks on Do. ** 20.10.19 JE* Material of Screw shafts *Steel* Identification Marks on Do. *○*

Material of Steam Pipes — Test pressure —

Is an installation fitted for burning oil fuel *Yes in donkey boiler* 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 *No* If so, state name of vessel

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

<i>△</i>	<i>1687A</i>	<i>1688</i>	<i>5861</i>	<i>3493</i>	<i>1789</i>	<i>1641</i>	<i>1788</i>
	<i>LLOYD</i>	<i>LLOYD</i>	<i>LLOYD</i>	<i>LLOYD</i>	<i>LLOYD</i>	<i>LLOYD</i>	<i>LLOYD</i>
	<i>10841</i>	<i>10841</i>	<i>4299</i>	<i>3755</i>	<i>3750</i>	<i>3742</i>	<i>3742</i>
	<i>J.P.</i>	<i>J.P.</i>	<i>J.P.</i>	<i>J.P.</i>	<i>J.P.</i>	<i>J.P.</i>	<i>J.P.</i>
<i>8822</i>	<i>1619</i>	<i>1749</i>	<i>264</i>	<i>3540</i>	<i>1589</i>	<i>1500</i>	
<i>LLOYD</i>	<i>LLOYD</i>	<i>LLOYD</i>	<i>LLOYD</i>	<i>LLOYD</i>	<i>LLOYD</i>	<i>LLOYD</i>	
<i>30</i>	<i>3524</i>	<i>3864</i>	<i>3856</i>	<i>809</i>	<i>3592</i>	<i>3593</i>	
<i>2286B</i>	<i>A</i>	<i>J.P.</i>	<i>J.P.</i>	<i>J.P.</i>	<i>J.P.</i>	<i>J.P.</i>	
<i>R.F.M.</i>	<i>J.P.</i>	<i>J.P.</i>	<i>J.P.</i>	<i>J.P.</i>	<i>J.P.</i>	<i>J.P.</i>	

The materials and workmanship are good.
The machinery has been constructed under special survey in accordance with the Rules and approved Plans. It has been tried at full power and found to work satisfactorily and is eligible in my opinion to be classed with record of + L MC 8.20.

The amount of Entry Fee ... £ *3* : *0* :
Special ... £ *73* : *12* :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :

When applied for,

31 AUG 1920

When received,

21/2/20

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

31 AUG 1920

Assigned *+ L MC 8.20.*

MACHINERY CERT.
WHITTEN



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Foundation