

Rpt. 4.

REPORT ON MACHINERY.

No. 74885

Date of writing Report 11 October 1921 When handed in at Local Office 11.10.21 Port of NEWCASTLE-ON-TYNE Received at London Office THE 25 OCT. 1921

No. in Survey held at North Shields Date, First Survey Oct 13 1920 Last Survey 5 October 1921
Reg. Book. 36736 on the S.S. "Channell Queen" (Number of Visits 13)

Master Built at South Shields By whom built Messrs Remondson & Co (No 195) Tons 3 Gross
Engines made at Southampton By whom made Messrs Day, Sumner & Co Ltd when made 1920
Boilers made at Stockton By whom made Messrs Riley Bros Ltd (No 365) when made 1921
Registered Horse Power 102 Owners London & Channell Island SS Co Ltd Port belonging to London
Nom. Horse Power as per Section 28 102 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines See Southampton Report No 10638 No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 13 1/4 - 22 - 37 Length of Stroke 27 Revs. per minute 115 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 no Is the after end of the liner made water tight in the propeller boss no
If the liner is in more than one length are the joints burned no 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 no If two liners are fitted, is the shaft lapped or protected between the liners no Length of stern bush no
Dia. of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule Dia. of Crank pin as fitted Size of Crank webs as fitted Dia. of thrust shaft under collars as fitted
No. of Feed pumps 2 Diameter of ditto 2 1/4 Stroke 4 Can one be overhauled while the other is at work no
No. of Bilge pumps 2 Diameter of ditto 2 1/4 Stroke 4 Can one be overhauled while the other is at work no
No. of Donkey Engines 2 Sizes of Pumps 1 Red 6 x 6 x 4 No. and size of Sections connected to both Bilge and Donkey pumps 2 - 2 1/2 (P+S)
In Engine Room 2 - 2 1/4 In Holds, &c. 2 - 2 1/2 (P+S)

No. of Bilge Injections 1 sizes 3 1/2 Connected to condenser, or to circulating pump no Is a separate Donkey Suction fitted in Engine room & size yes. 2 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 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 Bilge suction to stokehold How are they protected hood casings
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 no worked from no

OILERS, &c.—(Letter for record See Middlesbrough Report No 10939) Manufacturers of Steel See Middlesbrough Report No 10939
Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers Double Spring
Working Pressure Tested by hydraulic pressure to Date of test 1921 No. of Certificate 1854
Can each boiler be worked separately no Area of fire grate in each boiler 3.97 sq ft No. and Description of Safety Valves to each boiler Are they fitted with easing gear yes
Smallest distance between boiler uptakes and bunkers 4'-0" Mean dia. of boilers 4'-0" Length 4'-0" Material of shell plates no
Thickness Range of tensile strength Are the shell plates welded or flanged no Descrip. of riveting: cir. seams no
Long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
Per centages of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell no
Size of compensating ring 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 If stays are fitted with nuts or riveted heads Working pressure by rules no
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 no
Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes no
Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed no

SUPERHEATER. Type Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
Date of Test Pressure to which each is adjusted Is Easing Gear fitted no
Diameter of Safety Valve no

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.



002165-002173-0143

IS A DONKEY BOILER FITTED? *No.*

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

See Southampton Report No 10638.

Set of coupling belts and a quantity of iron bolts runs of various sizes have been supplied.

The foregoing is a correct description,
OF THE SHIELDS ENGINEERING & DRY DOCK CO., LIMITED.

J. G. Turnbull

ENGINE WORKS Manufacturer.
MANAGER

Dates of Survey while building
During progress of work in shops -- } *1920 Oct. 13. 1921 Jul 26 Aug 3. 11. 19. Sep 13. 15. 21. 22. 27 Oct 3. 4. 5.*
During erection on board vessel --- }
Total No. of visits *13*

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods

Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller
13-9-21 15-9-21 Engine and boiler seatings *3-8-21*. Engines holding down bolts *15-9-21*.

Completion of pumping arrangements *27-9-21*. Boilers fixed *22-9-21*. Engines tried under steam *22-9-21*.

Completion of fitting sea connections *3-8-21*. Stern tube *3-8-21*. Screw shaft and propeller *3-8-21*

Main boiler safety valves adjusted *22-9-21*. Thickness of adjusting washers *Port 1 1/2" 9/32" Starboard 1 3/4" 9/32"*

Material of Crank shaft Identification Mark on Do. 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 *Copper*. Test pressure *360 lbs*

Is an installation fitted for burning oil fuel *No* 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 *Small*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The boilers + machinery of*

This vessel have been built under special survey and efficiently installed in the vessel at this port. The work as shown in approved sketch has been efficiently fitted in stern. The machinery has been tried under working conditions, and main boiler safety valves adjusted under steam.

This vessel is in my opinion eligible to have the record of 7 LMC 10-21 in the Register Book.

The amount of Entry Fee ... £ *3-0-0* When applied for,
Special ... £ *4-17-0* At 10. 19*21*.
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : *26-11-1921*

J. M. Cuillan
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE. 15 NOV. 1921* *TUE. FEB 28 1922*

Assigned *MACHINERY CERT. + LMC 10-21*
WRITTEN
new cert 28/2/22 e L

Certificate (if required) to be sent to
The Surveyors are requested not to write on or below the space for Committee's Minute.

Rpt. 4.
Date of writing Report
No. in Survey Reg. Book.
on the
Master
Engines made at
Boilers made at
Registered Horse
Nom. Horse Power
ENGINES, &
Dia. of Cylinders
Is the screw shaft
in the propeller
between the bearing
liners are fitted, i
Dia. of Tunnel shaft
collars *7 1/4"*
No. of Feed pumps
No. of Bilge pumps
No. of Donkey Eng
In Engine Room
No. of Bilge Injection
Are all the bilge suction
Are all connections
Are they fixed sufficient
Are they each fitted with
What pipes are carried
Are all Pipes, Cock
Are the Bilge Suction
Is the Screw Shaft
OILERS, &c.
Total Heating Surface
Working Pressure
Can each boiler be used
each boiler
Smallest distance between
Thickness
long seams
Per centages of strength
Size of compensating
Length of plain part
Working pressure of flange
Pitch of stays to ditto
Material of stays
Material
Area at smallest part
Thickness
Diameter of tubes
Pitch across wide
Thickness of girder at
Working pressure by
Diameter
Pitch of rivets
PERHEATEL
Date of Test
Lloyd's Register
Foundation



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