

REPORT ON MACHINERY.

No. 8448
FRI. AUG. 17 1923

Rpt. 4.

Received at London Office

Date of writing Report 16th Aug 1923 When handed in at Local Office 16th Aug 1923. Port of Dundee
No. in Survey held at Dundee Date, First Survey 28th May 1920 Last Survey 14th Aug 1923
Reg. Book. on the Innes No 118 L.S. Larnia (Number of Visits 33)

Master Built at South Shields By whom built C. Renoldson & Co No 198 Tons } Gross
Engines made at Dundee By whom made Baggesen & Co when made 1923 } Net

Boilers made at Stockton on Tees By whom made Riley Bros when made

Registered Horse Power Owners Dorey Port belonging to
Nom. Horse Power as per Section 28 103, 106 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 14" x 23" x 38 3/8" Length of Stroke 27 Revs. per minute Dia. of Screw shaft as per rule 8.07 Material of screw shaft as fitted 8.15/32

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
the propeller boss Yes If the liner is in more than one length are the joints burned Yes 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 If two
liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 36"

Dia. of Tunnel shaft as per rule 7.1 Dia. of Crank shaft journals as per rule 7.45 Dia. of Crank pin 7 5/8 Size of Crank webs 14 1/2 x 5 Dia. of thrust shaft under
collars 7 5/8 Dia. of screw 10-0 Pitch of Screw 10-0 No. of Blades 4 State whether moveable No Total surface 36.5 sq ft

No. of Feed pumps 2 Diameter of ditto 2 3/4" Stroke 14" Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 2 3/4" Stroke 14" Can one be overhauled while the other is at work Yes

No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room In Holds, &c.

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

Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
How are they protected

What pipes are carried through the bunkers
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record 53) Manufacturers of Steel
Total Heating Surface of Boilers 1900 Is Forced Draft fitted No. and Description of Boilers two single return tube

Working Pressure 180 lbs Tested by hydraulic pressure to Date of test No. of Certificate

Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
each boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

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

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 rivets..... Working pressure of shell by rules Size of manhole in shell

Size 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

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 End plates in steam space:

Material of stays Area at smallest part Area supported by each stay Working pressure by rules Material of stays
Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom

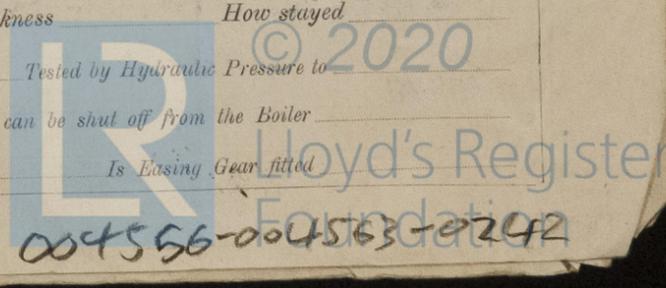
Area at smallest part Area supported by each stay Working pressure by rules Working pressure of plate by rules
Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

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

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?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Seen at sundown

The foregoing is a correct description,

Baggese & Co

Manufacturer.

| | | | | | | | | | | | | | |
|--------------------------------|-------------------------------------|---------|----------|----------|----------|----------|----------|----------|---------|----------|----------|---------|----------|
| Dates of Survey while building | During progress of work in shops -- | 1920 | MAY 28. | JUNE 22. | JULY 12. | SEP. 20. | 1921 | JAN. 19. | FEB. 2. | MAR. 22. | APR. 12. | MAY 14. | 23. |
| | | | AUG. 14. | 1922 | APR. 20. | 1923 | JAN. 15. | APR. 23. | 30. | MAY 4. | 14. | 25. | JUN. 15. |
| | During erection on board vessel --- | JULY 4. | 15. | 18. | 25. | 30. | AUG. 2. | 6. | 14. | | | | |
| | Total No. of visits | | 33. | | | | | | | | | | |

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders 2-8-23 Slides 18-7-23 Covers 10-7-23 Pistons 6-8-23 Rods 2-8-23

Connecting rods 26-6-23 Crank shaft 23-4-23 Thrust shaft 25-7-23 Tunnel shafts — Screw shaft 25-7-23 Propeller 7-8-23

Stern tube 18-7-23 Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft S Identification Mark on Do. 23-4-23 JES Material of Thrust shaft S Identification Mark on Do. 25-7-23 JES

Material of Tunnel shafts — Identification Marks on Do. — Material of Screw shafts S Identification Marks on Do. 25-7-23 JES

Material of Steam Pipes Test pressure

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 No If so, state name of vessel ✓

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

These engines have been built under special survey and in accordance with the Rules. The materials and workmanship are sound & good.

They are being forwarded to South Shields for fitting on board the vessel.

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

| | | |
|--------------------------------|------------|-------------------|
| The amount of Entry Fee ... £ | 3 : 0 : | When applied for, |
| Special 2/5..L.M.C | £ 10 : 6 : | 16/8/1923 |
| Donkey Boiler Fee ... £ | : | When received, |
| Travelling Expenses (if any) £ | : | 26/9/23 |

J. H. Bell & J. Cass Cairns
Engineer Surveyor to Lloyd's Register of Shipping.
Advised from Don to News Dept

Committee's Minute

FRI. 26 OCT. 1923

Assigned



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