

Rpt. 4.

REPORT ON MACHINERY.

No. 10760

Received at London Office

1266 70612 1141

Date of writing Report 20/7/21 When handed in at Local Office 20/7/21 19 Port of Bristol
No. in Survey held at 4 Loucester Date, First Survey Mar 18th 1920 Last Survey June 15th 1921
Reg. Book. on the Engine 1956 for Messrs Wood Shum & Co. 227 (Number of Visits 9)
Master Built at By whom built Tons } Gross
Engines made at G. Loucester By whom made W. Sisson & Co. Ltd when made } Net
Boilers made at By whom made when made } When built
Registered Horse Power Owners Port belonging to

Nom. Horse Power as per Section 28 22 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Compound Surface Condensing No. of Cylinders 2 No. of Cranks 3
Dia. of Cylinders 9 1/2 x 20 Length of Stroke 15 Revs. per minute 200 Dia. of Screw shaft as per rule 4.79 Material of screw shaft 1.8 Steel
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 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 21"
Dia. of Tunnel shaft as per rule 4.15 Dia. of Crank shaft journals as per rule 4.35 Dia. of Crank pin 1.5 Size of Crank webs 1 1/4 x 5 3/4 Dia. of thrust shaft under
collars 4 1/2 Dia. of screw 5.9 Pitch of Screw 5.3 No. of Blades 3 State whether moveable No Total surface 11.25 sq ft
No. of Feed pumps One Diameter of ditto 1 5/8 Stroke 7" No Can one be overhauled while the other is at work
No. of Bilge pumps One Diameter of ditto 1 5/8 Stroke 7" No Can one be overhauled while the other is at work
No. of Donkey Engines One Sizes of Pumps 8 1/4 x 3 1/2 x 5 Duplex No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room In Holds, &c.

No. of Bilge Injections One sizes 2 1/4 Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size
Are all the bilge suction pipes fitted with roses 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
What pipes are carried through the bunkers How are they protected

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

OILERS, &c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers Is Forced Draft fitted No No. and Description of Boilers
Working Pressure 140 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
Percentages 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
bottom 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
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
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:—

13 JUL 1921

The foregoing is a correct description,
for W. Sisson & Co., Limited.

Arthur W. Sisson
Secretary.

Engine Manufacturers.

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

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 14.3.10 Slides 14.3.10 Covers 10.1.21 Pistons 14.3.20 Rods 15.3.20
Connecting rods 3.6.10 Crank shaft *delivered* Thrust shaft *delivered* Tunnel shafts 15.6.21 Screw shaft *not complete* Propeller 15.6.21
Stern tube *not complete* 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 *Steel* Identification Mark on Do. 30.6.19 Material of Thrust shaft *Test of bulkhead* Identification Mark on Do. *same*
Material of Tunnel shafts *Steel* Identification Marks on Do. 15.6.21 Material of Screw shafts *Test of bulkhead* Identification Marks on Do. *not complete*
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

If so, state name of vessel

Is this machinery duplicate of a previous case

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

These engines have been built under special Survey for Wood Skinner's No. 27.
The Material & Workmanship are good.
The Stern tube has not been made or the propeller shaft completed as the necessary information has not been supplied by the Builders of the vessel.
This machinery in my opinion will be eligible for record in L.R.C. with date when completed & fitted in a Classed 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 ... £ 16.16.0 When applied for.
Section W. 9/21 ... £ 7.0.0
Special ...
Donkey Boiler Fee ... £ : : When received.
Travelling Expenses (if any) £ 4 : 10 6

Committee's Minute

FRI. 5 OCT 1923

Assigned

G. A. Dryden Torne

Engineer Surveyor to Lloyd's Register of Shipping.



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Lloyd's Register
Foundation

Committee's

Assigned