

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 21 Port of Bristol
 No. in Survey held at 4 Woualer Date, First Survey Mar 18 1920 Last Survey June 15 1921
 Reg. Book. on the Engine 1956 for Messrs Wood Shrim 5/8 N. 27 227 (Number of Visits 9)

Master _____ Built at _____ By whom built _____ Tons { Gross _____ Net _____ }
 Engines made at G. Loucester By whom made W. Sisson & Co Ltd when made _____
 Boilers made at ✓ By whom made _____ when made _____

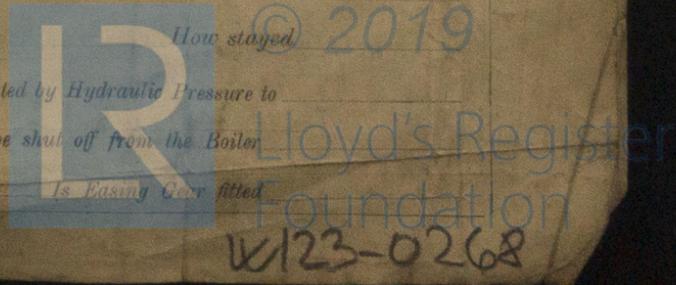
Registered Horse Power _____ Owners _____ Port belonging to _____
 Nom. Horse Power as per Section 28 22 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

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 4.74 as fitted 5 Material of screw shaft 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 as fitted 4.5 Dia. of Crank shaft journals as per rule 4.35 as fitted 4 1/2 Dia. of Crank pin 1.5 Size of Crank webs 2 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 20 1/2 11.25 sq
 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 5 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 _____ bottom _____ Thickness of plates crown _____ bottom _____ 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 _____
 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 _____

PERHEATER. 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 25-3-10 Slides 10-1-21 Covers 10-1-21 Pistons 14-3-20 Rods 15-3-20
Connecting rods 3-6-10 Crank shaft *delivered completed* Thrust shaft *delivered completed* 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. *C.R. 30-6-19* Material of Thrust shaft *Part of bank* Identification Mark on Do. *same*
Material of Tunnel shafts *Steel* Identification Marks on Do. *15-6-21* Material of Screw shafts *Import Steel* 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

Is this machinery duplicate of a previous case

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 for Wood Skinnors N° 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 # L.M.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 ... £ ~~1-6-0~~ 6-16-0 When applied for, 19
Special ... £ 7-0-0
Donkey Boiler Fee ... £ : : When received, 19
Travelling Expenses (if any) £ 4 : 10 6 27-10-1921

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

3841 made of W. Sisson

is fitted

Committee's

Assigned