Rec'd 30 JUL 1910

Ent. 4.

REPORT ON MACHINERY.

No. 8520

Port of Bristol

Received at London Office SAT. 6 AUG 1910

No. in Book. Survey held at Gloucester Date, first Survey Sep. 21st 1910 Last Survey July 28th 1910 (Number of Visits 7)

on the Engines No. 923 for Messrs Finchs S.S. No. 267 Tons { Gross / Net

ter Built at By whom built When built

ines made at Gloucester By whom made Messrs W. Sisson & Co when made 1909-1910

ers made at — By whom made — when made —

istered Horse Power Owners Port belonging to

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

INES, &c.—Description of Engines Compound Surface condensing No. of Cylinders 2 No. of Cranks 2

of Cylinders 13" & 26" Length of Stroke 18" Revs. per minute Dia. of Screw shaft as per rule 5.99 as fitted 6 7/8 Material of screw shaft Ingot Steel

e screw shaft fitted with a continuous liner the whole length of the stern tube No Liner Is the after end of the liner made water tight

e propeller boss ✓ If the liner is in more than one length are the joints burned ✓ If the liner does not fit tightly at the part

en the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive — If two

are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 2'-5"

of Tunnel shaft as per rule ~~None~~ as fitted Dia. of Crank shaft journals as per rule 5.35 as fitted 5 3/4 Dia. of Crank pin 6 1/2" Size of Crank webs 7 3/8 x 2 1/2 Dia. of thrust shaft under after end of crank shaft

s 6" Dia. of screw 7 ft Pitch of Screw 7 ft No. of Blades 4 State whether moveable Yes Total surface 22 ☐ft developed

of Feed pumps One Diameter of ditto 2 1/8 Stroke 8 Can one be overhauled while the other is at work —

f Bilge pumps One Diameter of ditto 2 1/8 Stroke 8 Can one be overhauled while the other is at work —

f Donkey Engines One Sizes of Pumps Duplex 3 1/2 x 2 1/2 x 4 No. and size of Suctions connected to both Bilge and Donkey pumps

ngine Room ✓ In Holds, &c. —

Bilge Injections One sizes 2 1/2" Connected to condenser, or to circulating pump Condenser Is a separate Donkey Suction fitted in Engine room & size —

l the bilge suction pipes fitted with roses ✓ Are the roses in Engine room always accessible — Are the sluices on Engine room bulkheads always accessible —

l connections with the sea direct on the skin of the ship — Are they Valves or Cocks —

ey 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 —

ey 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

pipes are carried through the bunkers — How are they protected —

ll Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times —

e Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges —

of examination of completion of fitting of Sea Connections ✓ of Stern Tube — Screw shaft and Propeller ✓

Screw Shaft Tunnel watertight — Is it fitted with a watertight door — worked from —

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

Heating Surface of Boilers 600 ☐ft Is Forced Draft fitted No. and Description of Boilers

ng Pressure Tested by hydraulic pressure to Date of test No. of Certificate

ch boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to

iler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

t distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates

ess Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

ams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

tages of strength of longitudinal joint rivets plate Working pressure of shell by rules Size of manhole in shell

compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

of plain part top bottom Thickness of plates crown bottom Description of longitudinal joint No. of strengthening rings

orking pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

itch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

aterial of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

aterial Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

iameter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

hickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

iameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

itch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

ickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each

orking pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

parately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

les Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

orking pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

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W598-0017

W598-0019

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. Description

Made at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of Safety Valves No. of Safety Valves Area of each Pressure to which they are adjusted Date of adjustment

If fitted with easing gear If steam from main boilers can enter the donkey boiler Dia. of donkey boiler Length

Material of shell plates Thickness Range of tensile strength Descrip. of riveting long. seams

Dia. of rivet holes Whether punched or drilled Pitch of rivets Lap of plating Per centage of strength of joint Rivets Plates

Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of stays to do. Dia. of stays

Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint

Working pressure of furnace by rules Thickness of furnace crown plates Stayed by

Diameter of uptake Thickness of uptake plates Thickness of water tubes Dates of survey

SPARE GEAR. State the articles supplied :—

The foregoing is a correct description,

W. SISSON & CO., LIMITED.

for W. Sisson Chairman Manufacturer of Engines

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

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 17.3.10 27.4.10 Slides 27.4.10 Covers 27.4.10 Pistons 27.4.10 Rods 4.11.09 21.12.09 17.3.10

Connecting rods 4.11.09 Crank shaft 4.11.09 21.12.09 17.3.10 Thrust shaft after end of crank 4.11.09 21.12.09 17.3.10 Tunnel shafts ✓ Screw shaft 4.11.09 21.12.09 17.3.10 Propeller 27.4.10

Stern tube 27.4.10 Steam pipes tested ✓ Engine and boiler seatings ✓ Engines holding down bolts ✓

Completion of pumping arrangements ✓ Boilers fixed — Engines tried under steam —

Main boiler safety valves adjusted ✓ Thickness of adjusting washers —

Material of Crank shaft Ingot Steel Identification Mark on Do. LLOYDS No. 1 Bs G.T. 17.3.10 Material of Thrust shaft after end of Crankshaft Identification Mark on Do. ✓

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Ingot Steel Identification Marks on Do. LLOYDS No. 1 Bs G.T. 17.3.10

Material of Steam Pipes ✓ Test pressure ✓

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

These engines have been built under Special Survey. The material & workmanship are good.
The Engines are being sent to Chepstow to be fitted on board Messrs Finch's S.S. No 267, & on their being fitted, tried under steam, main steam pipe tested & pumping arrangements fitted in accordance with the approved plan, will be entitled to record ✠ L.M.C (with date).
The Newport Surveyors have been advised.

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 : 0 :	When applied for, 5th Aug 1910	
Special Br £2.10.0 Nt £2.10.0	5 : 0 :		
Donkey Boiler Fee .. .. £	: :	When received, £3.10. Pd 26/10/10 £6.0.0 Pd 24/2/11	
Travelling Expenses (if any) £	3 : 10 :		

Committee's Minute TUE. 18 OCT 1910

Assigned + L.M.C. 1910

MACHINERY CERTIFICATE WRITTEN.

G. A. Drydan Joyce
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

FRI. 24 MAR 1911

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