

REPORT ON MACHINERY

No. 10924

Received at London Office

FRI 13 MAY 1921

Writing Report 6th May 1921 When handed in at Local Office

12th May 1921 Port of

Southampton

Survey held at Southampton

Date, First Survey 22nd Jan. 1920

Last Survey 4th May 1921

on the Engine No. 360

(Number of Visits 4)

Built at By whom built Tons } Gross

When made 1920

By whom made Day, Summers & Co. Ltd

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 15"-30" Length of Stroke 24" Revs. per minute Dia. of Screw shaft as per rule as fitted Material of screw shaft

screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight

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

in 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

of Tunnel shaft as per rule as fitted Dia. of Crank shaft journals as per rule as fitted 6.52 6.58 Dia. of Crank pin 6 5/8" Size of Crank webs 4 3/4" Dia. of thrust shaft under

s Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

of Feed pumps 1 Diameter of ditto 2 1/4" Stroke 12" Can one be overhauled while the other is at work

of Bilge pumps 1 Diameter of ditto 2 1/2" Stroke 12" Can one be overhauled while the other is at work

of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room In Holds, &c.

Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size

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

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

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

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

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

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

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 Is Forced Draft fitted No. and Description of Boilers

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

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

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

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

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

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

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

Thickness 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

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

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

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

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

Working pressures by rules Girders to Chamber tops: Material Depth and

Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

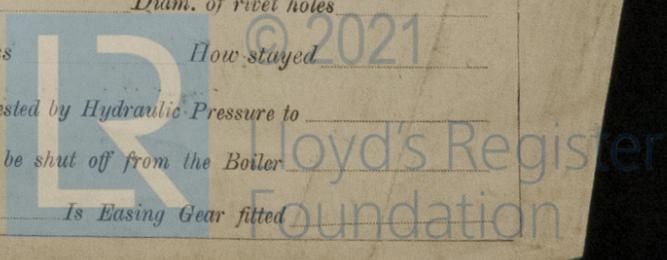
Working pressure of shell by rules Crown plates Thickness How stayed

ERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted Is Easing Gear fitted

010545-010553-0107



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

For DAY SUMMERS & Co. Ltd.

Graham C. H. Day, Manufacturer.

Dates of Survey while building: During progress of work in shops -- 22nd Jan, 30th Jan, 18th March, 1920. 4th May, 1921. During erection on board vessel --- Total No. of visits 4

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 22-1-20 Slides 18-3-20 Covers 22-1-20 Pistons 18-3-20 Rods 18-3-20

Connecting rods 18-3-20 Crank shaft 22-1-20 Thrust shaft Tunnel shafts Screw shaft Propeller

Stern tube 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 Iron Identification Mark on Do. 360 LLOYDS 22-1-20 A.H.B. 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 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 yes If so, state name of vessel Engine No. 359.

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

The engine has been built under special survey for stock. The materials and workmanship are sound and good. The engine is complete with the exception of the tubing of the condenser, which the builders wish to defer until the engine is sold.

TUE. 19 MAR 1929

The amount of Entry Fee ... £ : : When applied for, Special ... £ 6 : 0 : 12-5-1921 Donkey Boiler Fee ... £ : : When received, Travelling Expenses (if any) £ : : 14-5-21

TUES. 6 DEC 1927

TUES. 12 JUN 1928

A. H. Boyle

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 27 MAY 1927

Committee's Minute

Assigned Not for classing Committee

FRI. 12 AUG 1927

TUES. 13 SEP 1927

