

REPORT ON MACHINERY.

1 AUG 1925

Received at London Office

Date of writing Report Aug 4th 1925 When handed in at Local Office Aug 5th 1925 Port of Falmouth
 No. in Survey held at Falmouth Date, First Survey May 28 1924 Last Survey July 31 1925
 Reg. Book. of the ENGINE. N° 178th (Number of Visits 7)

Master Built at By whom built
 Engines made at Falmouth By whom made Co & Co (Engineers) Ltd when made 1925
 Boilers made at By whom made when made
 Registered Horse Power 30 Owners Port belonging to
 Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Inverted Comp^d Surface Condensing No. of Cylinders 2 No. of Cranks 2
 Dia. of Cylinders 11" & 24" Length of Stroke 16 Revs. per minute 180 Dia. of Screw shaft 4.8" Material of screw shaft
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight in the 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 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
 Dia. of Tunnel shaft 4.8" Dia. of Crank shaft journals 4.8" Dia. of Crank pin 5 Size of Crank webs 9 1/2" x 3 1/2" Dia. of thrust shaft under collars 5" Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface
 No. of Feed pumps one Diameter of ditto 2" Stroke 8" Can one be overhauled while the other is at work
 No. of Bilge pumps one Diameter of ditto 2" Stroke 8" Can one be overhauled while the other is at work
 No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 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 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
 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
 Dates of examination of completion of fitting of Sea Connections of Stern Tube Screw shaft and Propeller
 Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record) Manufacturers of Steel
 Total 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
 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
 g. 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 Working pressure of shell by rules Size of manhole in shell
 No. of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
 Length of plain part Thickness of plates Description of longitudinal joint No. of strengthening rings
 Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 No. of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
 Material of stays Diameter 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
 Diameter 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
 Girders 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 Superheater or Steam chest; how connected to boiler Can the super-heater be shut off and the boiler worked
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 Fitted with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
 Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

VERTICAL DONKEY BOILER— Manufacturers of Steel

No.	Description			When made	Where fixed
Made at	By whom made		No. of Certificate		Description of Sg
Working pressure	tested by hydraulic pressure to	Date of test	Fire grate area	No. in on the main S	
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment	Reg. Book
If fitted with easing gear	If steam from main boilers can enter the donkey boiler		Dia. of donkey boiler	Built at	
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams	Owners <i>Falmouth</i>	
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Yard No. <i>190</i> Elec
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	Radius of do.	Stayed by		
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:—

FOR AND TO THE BEST OF MY BELIEF this is a correct description,
COX & CO. (ENGINEERS) LTD
 Manufacturer.

Dates of Survey while building
 During progress of work in shops - - 1924. May. 28 June 2. 4. 5 + 18th
 During erection on board vessel - - 1925. July 22 + 31
 Total No. of visits _____ Is the approved plan of main boiler forwarded herewith _____

Dates of Examination of principal parts—Cylinders 28/5/24 Slides 28/5/24 Covers 2. 4/6/24 Pistons 28/5/24 Rods 18/6/24
 Connecting rods 18/6/24 Crank shaft 28/5/24 Thrust shaft 28/5/24 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 ✓
 Main boiler safety valves adjusted ✓ Thickness of adjusting washers ✓
 Material of Crank shaft *Steel* Identification Mark on Do. *979* Lloyd's. Material of Thrust shaft *Steel* Identification Mark on Do. *979* Lloyd's
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts ✓ Identification Marks on Do. ✓
 Material of Steam Pipes ✓ Test pressure ✓

General Remarks (State quality of workmanship, opinions as to class, &c. This machinery has been built under special survey in accordance with the requirements of the rules; the materials & workmanship are good and the machinery will be eligible in my opinion for the record of +LMC (with date) when fitted under special survey in a classed vessel.

The machinery has now been placed in stocks in the maker's yard.
 It is similar to Engine No 178^A 178^B + 178^C.

The amount of Entry Fee .. £ 2 : 0 - 0 When applied for, Aug 5 1925
 Special ^{3/4} Main Fee .. £ 6 : 0 - 0
 Donkey Boiler Fee £ : : When received, 4. 8 - 25
 Travelling Expenses (if any) £ : :
 Committee's Minute **FRI. 3 SEP 1925**

R B Moffitt
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Assigned *see minute on Dal Rpt No 6571*

REPORT

Port of *Falmouth*

No. in on the ~~main~~ S Reg. Book

Built at
 Owners *Falmouth*
 Yard No. *190* Elec

DESCRIPTION OF DYNAMO

Compound to a Robey

Capacity of Dynamo

Where is Dynamo fixed

Position of Main Switch B

Positions of auxiliary switches

If ~~are~~ *fuses* are fitted on m circuits ✓

If vessel is wired on the ~~are~~ *fuses*

Are the ~~cut~~ *fuses* out of non-ori

Are all cut outs fitted in e are permanent instr

Are all switches and cut-o

Total number of lights p

A 8

B 4

C

D

E

2 Mast head light

2 Side light

If are lights, what prote

Where are the switches

DESCRIPTION OF CABLES

Main cable carrying

Branch cables carrying

Branch cables carrying

Leads to lamps carrying

Cargo light cables carry

DESCRIPTION OF LAMP

vulcanized

Joints in cables, how m

Are all the joints of c

made in bunkers

Are there any joints

How are the cables l

Certificate (if required) to be sent to

The Surveyors are requested not to write on or below the space for Committee's Minute.



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