

REPORT ON MACHINERY.

Old No. 25996

Received at London Office

Date of writing Report 19 When handed in at Local Office 19 Port of Leith WED. FEB. 4-1914

No. in Survey held at Alloa Date, First Survey Last Survey 19
Reg. Book. on the S/S EUPHON. (Mackay Bros N^o 21) (Number of Visits)

Master Built at Alloa By whom built Mackay Bros. Tons } Gross
Net
When built

Engines made at Sunderland By whom made The North Eastern Marine Eng 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 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines

Description of Engines			No. of Cylinders	No. of Cranks
Dia. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft as per rule as fitted	Material of screw shaft
Is the screw shaft fitted with a continuous liner the whole length of the stern tube in the propeller boss			Is the after end of the liner made water tight	
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 as per rule as fitted	Dia. of Crank shaft journals as per rule as fitted	Dia. of Crank pin	Size of Crank webs	Dia. of thrust shaft under collars
Dia. of screw	Pitch of Screw	No. of Blades	State whether moveable	Total surface
No. of Feed pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work	
No. of Bilge pumps	Diameter of ditto	Stroke	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		
In 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 yes

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

Dates of examination of completion of fitting of Sea Connections 4/11/13 of Stern Tube 4/11/13 Screw shaft and Propeller screw shaft 4/11/13 ✓

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. 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

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 Thickness of plates 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 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

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

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

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

Stays stiffened 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



IS A DONKEY BOILER FITTED?

Yes If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

none

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building	During progress of work in shops --									
	During erection on board vessel ---		9'2 35.0 x 20.0	13 20.0 x 20.0	11'4 15.0 x 20.0	8'5 20.0 x 20.0				
Total No. of visits		30	30	30	30	30	30	30	30	30
		44	44	50	50	44	50	50	50	50

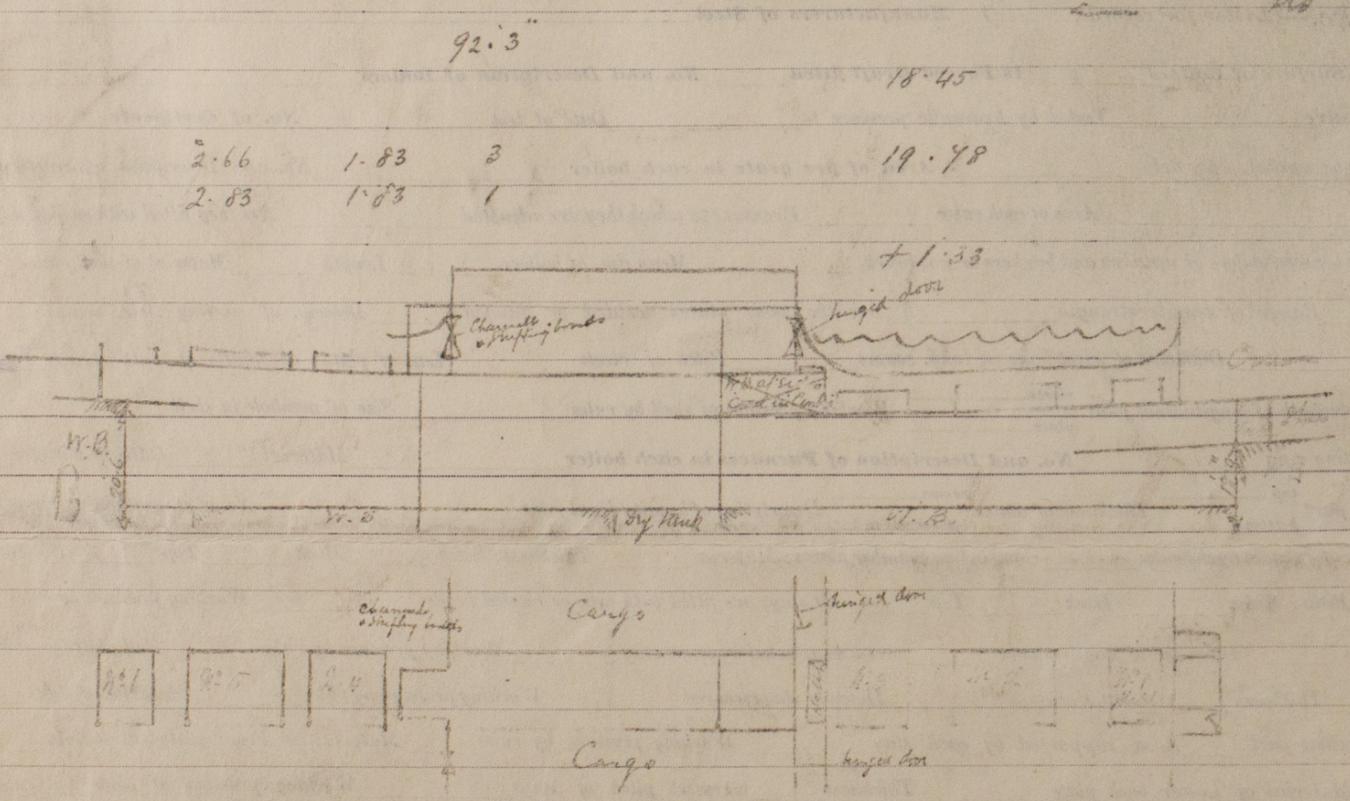
Dates of Examination of principal parts—		Cylinders	Slides	Covers	Pistons	Rods	Is the approved plan of main boiler forwarded herewith	
Connecting rods	Crank shaft	Thrust shaft	Tunnel shaft	Screw shaft	Propeller			
Stern tube	Steam pipes tested	Engine and boiler seatings	Engines holding down bolts					
Completion of pumping arrangements	Boilers fixed	Engines tried under steam						
Main boiler safety valves adjusted	Thickness of adjusting washers							
Material of Crank shaft	Identification Mark on Do.	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. If so, state name of vessel.

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



The amount of Entry Fee ... £ : : When applied for, 29/11/1913

Special ... £ : : When received, 1913

Donkey Boiler Fee ... £ : : 12

Travelling Expenses (if any) £ : : 19

Committee's Minute FEB. 6 1914

Assigned



VESS

These particulars a Signal Letters (if any)

Official Number.

1 3 5, 32

No., Date, and Port of Pre

Whether British or Foreign Built. Whether and if

British. 80

Number of Decks

Number of Masts

Rigged ...

Stern ...

Build ...

Galleries ...

Head ...

Framework and descrip vessel ...

Number of Bulkheads ...

Number of water ballast and their capacity in t

Total to quarter the depth from ves to bottom of keel

No. of sets of Engines. Description of Engine

One Tri. compound reciprocating acting inverted engine

No. of Shafts. Particulars of Boilers

One Description, Number, Iron or Steel, Loaded Pressure 185 lb

GROSS TONNAGE

Under Tonnage Deck

Space or spaces between

Turret or Trunk ...

Forecastle ...

Bridge space ...

Poop or Break ...

Side Houses ...

Deck Houses ...

Expansion

Spaces for machinery, and Section 78 (2) of the M 1894 ...

Excess of Hatchways

Gross Tonnage

Deductions, as per Contr

Registered Tonn

NOTE 1.—The tonnage of the Deck for propelling

NOTE 2.—The undermentione

Name of Master

No. of Owners

Name, Residence, and L

The Engineer

Place of business

Manager: -

Dated 30th

(830) (6 862) Wt. 28981/72 10

(81762) 20349/8 20

Certificate (if required) to be sent to

The Shareholders requested not to write on or before the space for Committee's Minute.



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