

REPORT ON MACHINERY.

No. 27436

Received at London Office

Date of writing Report

When handed in at Local Office

4.5.14 Port of Hull

Date, First Survey Nov 18th Last Survey Apr. 29 1914

(Number of Visits)

No. in Survey held at Reg. Book.

50. on the steel s.s. "DUNNET."

2379

Tons Gross 205 Net 79 When built 1914.

Master Built at Selby

By whom built Cochraue & Co. Ltd.

when made 1914.

Engines made at Hull.

By whom made Amos & Smith Ltd.

when made 1914.

Boilers made at Hull.

By whom made Amos & Smith Ltd.

when made 1914.

Registered Horse Power

49.

Is Refrigerating Machinery fitted for cargo purposes no.

Is Electric Light fitted no.

ENGINES, &c.—Description of Engines

Triple Expansion

No. of Cylinders 3. No. of Cranks 3.

Dia. of Cylinders 10.17.28. Length of Stroke 24. Revs. per minute

Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes.

Is the after end of the liner made water tight in the propeller boss yes.

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

liners are fitted, is the shaft lapped or protected between the liners

Dia. of Tunnel shaft as per rule 5.76. Dia. of Crank shaft journals as per rule 6. Dia. of Crank pin 6 1/2

No. of Feed pumps 1. Diameter of ditto 2 1/2. Stroke 11. Can one be overhauled while the other is at work

No. of Bilge pumps 1. Diameter of ditto 2 1/2. Stroke 11. Can one be overhauled while the other is at work

No. of Donkey Engines One. Sizes of Pumps 6 1/4 x 4 1/4 x 6. No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Two 2" One forward, one aft. In Holds, &c. Three 2" Ballast tank Main hold. Fare hold 2 1/2" ejector from all bilges.

No. of Bilge Injections 1. sizes 2 1/2. Connected to condenser, or to circulating pump pump. Is a separate Donkey Suction fitted in Engine room & size 2 1/2" ejector.

Are all the bilge suction pipes fitted with roses yes. Are the roses in Engine room always accessible yes. Are the sluices on Engine room bulkheads always accessible zone.

Are all connections with the sea direct on the skin of the ship yes. Are they Valves or Cocks Both.

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes. Are the Discharge Pipes above or below the deep water line above.

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yes. Are the Blow Off Cocks fitted with a spigot and brass covering plate yes.

What pipes are carried through the bunkers Hold suction. How are they protected Wood casing.

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

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

Dates of examination of completion of fitting of Sea Connections 13.2.14. of Stern Tube 13.2.14. Screw shaft and Propeller 13.2.14.

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

BOILERS, &c.—(Letter for record S.) Manufacturers of Steel Messrs. Phoenix & Co. Ltd. of Harrogate

Total Heating Surface of Boilers 835. Is Forced Draft fitted no. No. and Description of Boilers One single-ended.

Working Pressure 200lbs. Tested by hydraulic pressure to 400lbs. Date of test 23.3.14. No. of Certificate 2068

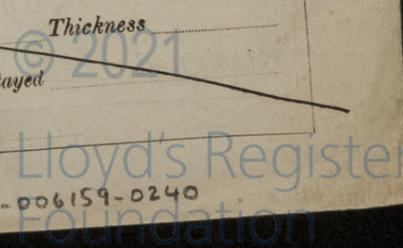
Can each boiler be worked separately Area of fire grate in each boiler 27.375. No. and Description of Safety Valves to each boiler 2-Spring-loaded Area of each valve 3.14 Pressure to which they are adjusted 205-lbs. Are they fitted with easing gear yes.

Smallest distance between boilers or uptakes and bunkers or woodwork 7" Mean dia. of boilers 10'9" Length 9'3. Material of shell plates S.

Thickness 3/32 Range of tensile strength 29-33. Are the shell plates welded or flanged Descrip. of riveting: cir. seams HR L. 1" av

If used, state whether, and when, this will be done

Is a Report also sent on the Hull of the Ship?



006148-006159-0240

IS A DONKEY BOILER FITTED?

no.

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two each top and bottom end connecting rod bolts nuts, two main bearing bolts nuts, one set of coupling bolts nuts, one set each feed & bilge pump valves, iron of various sizes, a quantity of assorted bolts nuts etc.

FOR AMOS & SMITH LTD.

The foregoing is a correct description,

E. J. Robinson

Secretary.

Manufacturer.

Dates of Survey while building { During progress of work in shops - - - 1913: - Nov 18. 26. Dec 9. 17. 23. 1914: - Jan 2. 15. 27. Feb 5. 13. 17. 23. Mar 9. 17. 23. 30 April. During erection on board vessel - - - Apr 2. 6. 15. 20. 22. 25. 28. 29 Total No. of visits 25

Is the approved plan of main boiler forwarded herewith R/L 27395

Dates of Examination of principal parts—Cylinders 23.3.14. Slides 23.3.14. Covers 30.3.14. Pistons 6.4.14. Rods 15.4.14. Connecting rods 15.4.14. Crank shaft 1.4.14. Thrust shaft 1.4.14. Tunnel shafts ✓ Screw shaft 13.2.14. Propeller 13.2.14. Stern tube 13.2.14. Steam pipes tested 22.4.14. Engine and boiler seatings 13.2.14. Engines holding down bolts 20.4.14. Completion of pumping arrangements 25.4.14. Boilers fixed 20.4.14. Engines tried under steam 25.4.14. Main boiler safety valves adjusted 25.4.14. Thickness of adjusting washers PV 3/32" SV 1/32". Material of Crank shaft S. Identification Mark on Do. 1209. Material of Thrust shaft S. Identification Mark on Do. 1209. Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts 1209. Identification Marks on Do. 1209. Material of Steam Pipes Copper solid drawn. Test pressure 400 lbs hyd. pres. 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 S.Y. "Pentland".

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

The engines boiler of this vessel have been constructed under special survey in accordance with the Rules. The materials and workmanship are sound and good. The Boiler tested by hydraulic pressure and with the engines secured on board & tested under steam, they are now in good order & safe working condition and respectfully submitted as being eligible in my opinion to be classed with the notation of +LMC 4. 14 in the Register book.

It is submitted that this vessel is eligible for THE RECORD. + LMC 4. 14.

J. S. MacKillop 6/5/14

The amount of Entry Fee ... £ 1 : : When applied for. Special ... £ 8 : 0 : 5/5/1914 Donkey Boiler Fee ... £ : : When received. Travelling Expenses (if any) £ : 4 : 1 29.5.19

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

Committee's Minute FRI. MAY. 8 - 1914

Assigned

+ LMC 4. 14



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Certificate (if required) to be sent to

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