

# REPORT ON MACHINERY.

No. 28360

Date of writing Report 8<sup>th</sup> Mar. 1915 When handed in at Local Office 8-3-15 Port of Hull Received at London Office FRI. MAR 19 1915

No. in Survey held at Hull Date, First Survey 21-8-14 Last Survey 4-3-1915

Reg. Book 5049 on the steel "PRINCESS MARIE-JOSE" (1073) (Number of Visits 39) Gross Tons 274 Net Tons 109

Master \_\_\_\_\_ Built at Beverley By whom built Cook, Nelson & Lemuel When built 1915

Engines made at Hull By whom made C. N. Holmes & Co. Ltd when made 1915

Boilers made at Hull By whom made C. N. Holmes & Co. Ltd when made 1915

Registered Horse Power \_\_\_\_\_ Owners Primitage Ste. Trawling Co Port belonging to Hull

Nom. Horse Power as per Section 28 79 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

**ENGINES, &c.**—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 12 1/4, 22, 36 Length of Stroke 24 Revs. per minute \_\_\_\_\_ Dia. of Screw shaft as per rule 7.56 Material of screw shaft 9

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 If the liner is in more than one length are the joints burned yes 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 3'-0"

Dia. of Tunnel shaft as per rule 6.67 as fitted 6.73 Dia. of Crank shaft journals as per rule 7.06 as fitted 7 1/4 Dia. of Crank pin 7 1/4 Size of Crank web 4 1/2 x 4 7/8 Dia. of thrust shaft under collars 7 1/4 Dia. of screw 9'-3" Pitch of Screw 10'-8" No. of Blades 4 State whether moveable no Total surface 30 sq ft

No. of Feed pumps 1 Diameter of ditto 2 1/2 Stroke 14 1/4 Can one be overhauled while the other is at work \_\_\_\_\_

No. of Bilge pumps 1 Diameter of ditto 2 1/2 Stroke 14 1/4 Can one be overhauled while the other is at work \_\_\_\_\_

No. of Donkey Engines One Sizes of Pumps 6 x 3 1/2 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps \_\_\_\_\_

In Engine Room 2-2 One forward One aft. In Holds, &c. 4-2 After slushwell, Forward slushwell, Main hold, Forecastle.

No. of Bilge Injections 1 sizes 3 1/2 connected to condenser, or to circulating pump \_\_\_\_\_ pumps a separate Donkey Suction fitted in Engine room & size 2 1/2 speter

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 none

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 Suctions How are they protected Wood Casings

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 17.11.14 of Stern Tube 17.11.14 Screw shaft and Propeller 17.11.14

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. Stewart & Lloyd

Total Heating Surface of Boilers 1310 Is Forced Draft fitted no No. and Description of Boilers One single-ended

Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 30.11.14 No. of Certificate 3045

Can each boiler be worked separately \_\_\_\_\_ Area of fire grate in each boiler 46.87 No. and Description of Safety Valves to each boiler 2 Spring loaded Area of each valve 4.9 Pressure to which they are adjusted 203 lbs Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 6 Mean dia. of boiler 13'-6" Length 10'-8" Material of shell plates S

Thickness 1/32 Range of tensile strength 28 tons Are the shell plates welded or flanged \_\_\_\_\_ Descrip. of riveting: cir. seams BR long. seams TRAB Diameter of rivet holes in long. seams 1 1/32 Pitch of rivets 8 1/16 Lap of plates or width of butt straps 17 1/2

Per centages of strength of longitudinal joint rivets 89 plate 84.8 Working pressure of shell by rules 202 Size of manhole in shell 16 x 12

Size of compensating ring 7 x 1 1/32 No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 39"

Length of plain part top 76 bottom \_\_\_\_\_ Thickness of plates crown 25 bottom 32 Description of longitudinal joint welded No. of strengthening rings \_\_\_\_\_

Working pressure of furnace by the rules 203 Combustion chamber plates: Material S Thickness: Sides 3/4 Back 23/32 Top 3/4 Bottom 3/4

Pitch of stays to ditto: Sides 8 1/4 x 9 Back 8 1/4 x 10 1/2 Top 8 1/4 x 11 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 210

Material of stays S Diameter at smallest part 2.07 Area supported by each stay 84 Working pressure by rules 221 End plates in steam space \_\_\_\_\_

Material S Thickness 1 5/16 Pitch of stays 20 x 20 How are stays secured GNW Working pressure by rules 204 Material of stays S Diameter at smallest part 8.76 Area supported by each stay 400 lbs Working pressure by rules 225 Material of Front plates at bottom S

Thickness 1 Material of Lower back plate S Thickness 29/32 Greatest pitch of stays 13 1/2 x 10 Working pressure of plate by rules 202

Diameter of tubes 3 1/2 Pitch of tubes 5 x 5 Material of tube plates S Thickness: Front 1 Back 29/32 Mean pitch of stays 10

Pitch across wide water spaces 13 3/4 Working pressures by rules 203 Girders to Chamber tops: Material S Depth and thickness of girder at centre 11 3/4 x 1 3/4 Length as per rule 3 1/2 Distance apart 11 Number and pitch of stays in each 5 @ 8 1/4

Working pressure by rules 209 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 holes \_\_\_\_\_ Pitch of rivets \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_ Diameter of flue \_\_\_\_\_ Material of flue plates \_\_\_\_\_ Thickness \_\_\_\_\_

If 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?

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 and nuts, one set of coupling bolts & nuts, one set each feed and bilge pump valves, iron of various sizes, a quantity of assorted bolts, nuts etc., 2 donkey pump valves, for suction chest

The foregoing is a correct description,

P. pro CHARLES D. HOLMES & Co. LTD.

Richard Holmes DIRECTOR

Manufacturer.

Dates of Survey while building { During progress of work in shops - 1914: - Aug 21, 25, Sep 10, 28, Oct 6, 8, 16, 20, 28, 30, Nov 3, 9, 11, 14, 16, 17, 18, 23, 25, 27, 30; During erection on board vessel - Dec 7, 10, 14, 18, 22, 1915: - Jan 6, 14, 27, Feb 9, 12, 15, 23, 24, 26, Mar 2, 3, 4; Total No. of visits 39.

Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts - Cylinders 18.12.14, Slides 22.12.14, Covers 22.12.14, Pistons 18-12-14, Rods 18-12-14, Connecting rods 18.12.14, Crank shaft 16.11.14, Thrust shaft 7.12.14, Tunnel shafts, Screw shaft 16.11.14, Propeller 16.11.14, Stern tube 16.11.14, Steam pipes tested 24.2.15, Engine and boiler seatings 17.11.14, Engines holding down bolts 23.2.14, Completion of pumping arrangements 3.3.15, Boilers fixed 23.2.14, Engines tried under steam 26.2.15, Main boiler safety valves adjusted 26.2.15, Thickness of adjusting washers FV 5/16" AV 9/32", Material of Crank shaft S, Identification Mark on Do. 1390, Material of Thrust shaft S, Identification Mark on Do. 1267, Material of Tunnel shafts, Identification Marks on Do., Material of Screw shafts S, Identification Marks on Do., Material of Steam Pipes Copper solid drawn, Test pressure 400lbs hyd. 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 no. If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. The Machinery and 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 and tested under steam. They are now in good order and safe working condition and respectfully submitted as being eligible in my opinion to be classed with the notation of +hmc 3.15 in the Register book.

It is submitted that this vessel is eligible for THE RECORD, + LMC 3.15.

The amount of Entry Fee ... £ 1 : : When applied for, 18/3 19.15; Special ... £ 11 : 17; Donkey Boiler Fee ... £ 1; Travelling Expenses (if any) £ 2. : : When received, 30 Mar 19.15 1/4/15

J. G. Mackillop, Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute TUE MAR 23 1915

Assigned + LMC 3.15



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