

Rpt. 4.

REPORT ON MACHINERY.

No. 3289

Received at London Office

Date of writing Report 5 Aug 1913 When handed in at Local Office Dublin 19 Dublin Port of Dublin WED. AUG 6 1913

No. in Survey held at Dublin Date, First Survey 14th June Last Survey 30 July 1913

Reg. Book. on the New steel steamer "Malaspina" (Number of Visits 7) Tons { Gross } Net

Master Dublin Built at Dublin By whom built Dublin Dockyard & Co. Ltd When built 1913

Engines made at Dublin By whom made Dublin when made 1913

Boilers made at Dublin By whom made Dublin when made 1913

Registered Horse Power Dublin Owners Dublin Port belonging to Dublin

Nom. Horse Power as per Section 28 Dublin Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted in hands

ENGINES, &c.—Description of Engines

No. of Cylinders 2 No. of Cranks 2

Dia. of Cylinders 18" Length of Stroke 24" Revs. per minute 150 Dia. of Screw shaft 2" as per rule 2" Material of screw shaft Steel

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 Yes If two liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 12"

Dia. of Tunnel shaft 2" as per rule 2" Dia. of Crank shaft journals 2" as per rule 2" Dia. of Crank pin 2" Size of Crank webs 2" Dia. of thrust shaft under collars 2" Dia. of screw 2" Pitch of Screw 2" No. of Blades 2 State whether moveable Yes Total surface 2"

No. of Feed pumps 2 Diameter of ditto 2" Stroke 2" Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 2" Stroke 2" Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2 Sizes of Pumps 2" No. and size of Suctions connected to both Bilge and Donkey pumps 3-2 1/2" line

In Engine Room Yes In Holds, &c. 3-2 1/2" line

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

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 Yes

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 Below

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 None How are they protected None

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 1st July of Stern Tube 1st July Screw shaft and Propeller 3rd July

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

BOILERS, &c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers 2 Is Forced Draft fitted Yes No. and Description of Boilers 2

Working Pressure 2 Tested by hydraulic pressure to 2 Date of test 2 No. of Certificate 2

Can each boiler be worked separately Yes Area of fire grate in each boiler 2 No. and Description of Safety Valves to each boiler 2

Area of each valve 2 Pressure to which they are adjusted 2 Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 2 Mean dia. of boilers 2 Length 2 Material of shell plates 2

Thickness 2 Range of tensile strength 2 Are the shell plates welded or flanged Yes Descrip. of riveting: cir. seams 2

long. seams 2 Diameter of rivet holes in long. seams 2 Pitch of rivets 2 Lap of plates or width of butt straps 2

Per centages of strength of longitudinal joint 2 Working pressure of shell by rules 2 Size of manhole in shell 2

Size of compensating ring 2 No. and Description of Furnaces in each boiler 2 Material 2 Outside diameter 2

Length of plain part 2 Thickness of plates 2 Description of longitudinal joint 2 No. of strengthening rings 2

Working pressure of furnace by the rules 2 Combustion chamber plates: Material 2 Thickness: Sides 2 Back 2 Top 2 Bottom 2

Pitch of stays to ditto: Sides 2 Back 2 Top 2 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 2

Material of stays 2 Diameter at smallest part 2 Area supported by each stay 2 Working pressure by rules 2 End plates in steam space: 2

Material 2 Thickness 2 Pitch of stays 2 How are stays secured 2 Working pressure by rules 2 Material of stays 2

Diameter at smallest part 2 Area supported by each stay 2 Working pressure by rules 2 Material of Front plates at bottom 2

Thickness 2 Material of Lower back plate 2 Thickness 2 Greatest pitch of stays 2 Working pressure of plate by rules 2

Diameter of tubes 2 Pitch of tubes 2 Material of tube plates 2 Thickness: Front 2 Back 2 Mean pitch of stays 2

Pitch across wide water spaces 2 Working pressures by rules 2 Girders to Chamber tops: Material 2 Depth and thickness of girder at centre 2 Length as per rule 2 Distance apart 2 Number and pitch of stays in each 2

Working pressure by rules 2 Superheater or Steam chest; how connected to boiler 2 Can the superheater be shut off and the boiler worked separately Yes Diameter 2 Length 2 Thickness of shell plates 2 Material 2 Description of longitudinal joint 2 Diam. of rivet holes 2

Pitch of rivets 2 Working pressure of shell by rules 2 Diameter of flue 2 Material of flue plates 2 Thickness 2

If stiffened with rings Yes Distance between rings 2 Working pressure by rules 2 End plates: Thickness 2 How stayed 2

Working pressure of end plates 2 Area of safety valves to superheater 2 Are they fitted with easing gear Yes

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VERTICAL DONKEY BOILER—

Manufacturers of Steel

No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure _____ tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of Safety _____

Valves _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____

If fitted with casing gear _____ If steam from main boilers can enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____

Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____

Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Plates _____

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 :—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - }
 { During erection on board vessel - - - }
 Total No. of visits _____

Is the approved plan of main boiler forwarded herewith _____

Dates of Examination of principal parts—Cylinders _____ Slides _____ Covers _____ Pistons _____ Rods _____

Connecting rods _____ Crank shaft _____ 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 _____

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 _____

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

The stern post has been bored & the tube fitted also the sea cocks.
 The tail shaft & Propeller are in place & the vessel has been
 towed to Glasgow for Completion of Machinery, Electric light & Wireless
 Telegraphy. Glasgow Surveyors notified accordingly.

Macmillan
 Surveyor at Dublin

Certificate (if required) to be sent to _____

The amount of Entry Fee .. £ : : _____ When applied for, _____

Special £ : : _____

Donkey Boiler Fee £ : : _____ When received, _____

Travelling Expenses (if any) £ : : _____

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

Committee's Minute GLASGOW 9-SEP-1913

FRI SEP 12 1913

Assigned See minute on Gls. Report No. 33092



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 6/9/13