

REPORT ON MACHINERY

No. 34221
WED. OCT 31 1917

Received at London Office

of writing Report 10 When handed in at Local Office 10 Port of Glasgow

Survey held at Glasgow Date, First Survey 13th April 1914 Last Survey 13th April 1914
 Book. (Number of Vols) 1

on the Triple screw Steamer "Melita"

ter Built at Glasgow By whom built Barclay Curle & Co. Ltd. (S17) Tons { Gross
Net

ines made at Belfast By whom made Harland & Wolff when made 1917

ers made at By whom made when made

istered Horse Power Owners Port belonging to

se Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

FINES, & Co. — Description of Engines

No. of Cylinders No. of Cranks

of Cylinders Length of Stroke Revs. per minute Dia. of Screw shaft as per rule as fitted Material of screw shaft

he screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight

he 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

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

rs are fitted, is the shaft lapped or protected between the liners Length of stern bush

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

ars Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room In Holds, &c.

of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Sution fitted in Engine room & size

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

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

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

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

hat pipes are carried through the bunkers How are they protected

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

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

dates of examination of completion of fitting of Sea Connections 13/4/17 of Stern Tube 13/4/17 Screw shaft and Propeller 13/4/17

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

BOILERS, & Co. — (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 each boiler No. and Description of Safety Valves to

each boiler Area of each valve Pressure, 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

ing. 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 plate Working pressure of 4 by rules Size of manhole in shell

Use of compensating ring No. and Description of Furnaces in boiler Material Outside diameter

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

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 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

holes Pitch of rivets Working pressure of shell by rules Diameter of 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?

If so, is a report now forwarded?

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

“ “ “ donkey “ “ “

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 T_l 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, the name of vessel

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

See coils and valves stern tube propeller shafts & propeller examined when fitted and found satisfactory

Certificates (if required) to be sent to

The amount of Entry Fee ... £ : When applied for
Special ... £ :
Donkey Boiler Fee ... £ : When received
Travelling Expenses (if any) £ :

A. McMillan & Co.
Engineers Surveyors to Lloyd's Register of British & Foreign Shipping.

Committee's Minute GLASGOW 300/17

Assigned Transmit to London



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