

REPORT ON MACHINERY.

No. 17709

of writing Report 15/3/1920. When handed in at Local Office

Received at London Office THU. SEP. 30 1920

in Survey held at Port - Glasgow

16/3/1920. Port of Greenock

Book. on the Steel Screw Steamship "MANIPUR"

Date, First Survey 24th January 1920 Last Survey 11th March, 1920.

ter J. W. Scum Built at Port - Glasgow By whom built Lithgow's Limited

Tons { Gross 9242.19.
Net 5697.27.
When built 1920.

ines made at Glasgow By whom made David Brown & Co. Ltd.

when made

ers made at By whom made

when made

stered Horse Power Owners J + J. Brocklebank Ltd

Port belonging to Liverpool

Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

INES, &c.—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
e screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight
e 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
on the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two
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
s Dia. of screw Pitch of Screw No. of Blades State whether moceable Total surface
f Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
f Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
f Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
ngine Room In Holds, &c.

Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size
l the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
l connections with the sea direct on the skin of the ship Yes. Are they Valves or Cocks Both.
ey 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
ey 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.
pipes are carried through the bunkers How are they protected

l Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
e Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

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

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

Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers
ng Pressure Tested by hydraulic pressure to Date of test No. of Certificate
ch boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
ler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
ages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
ompensating ring No. and Description of Furnaces in each boiler Material Outside diameter
f plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
bottom Thickness of plates bottom
pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
ross wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
of girder at centre Length as per rule Distance apart Number and pitch of stays in each
pressure by rules Steam dome: description of joint to shell % of strength of joint
Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
ivets Working pressure of shell by rules Crown plates Thickness How stayed

FEATER. Type Date of Approval of Plan

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

f Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

W53-0025

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 - - (1920) Jan. 27. Feb. 18. Mar. 5. 8. 11. -
During erection on board vessel - - -
Total No. of visits 5.

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

Completion of fitting sea connections 5/3/20 Stern tube 11/3/20 Screw shaft and propeller 11/3/20.

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.)

Vessel taken to Glasgow for machining.

The amount of Entry Fee ... £ : : When applied for,
Special ... £ : : 19
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 19

Committee's Minute

Assigned See G.L. Rpt N° 40400.

Graham Robertson

Engineer Surveyor to Lloyd's Register of Shipping.



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