

Report No. 17709
REPORT ON MACHINERY.

Received at London Office **THU. SEP. 30 1920**
 of writing Report **17/3/1920** When handed in at Local Office **16/3/1920** Port of **Greenock**
 in Survey held at **Port - Glasgow** Date, First Survey **27th January 1920** Last Survey **11th March, 1920**
 Book on the **Steel Screw Steamship "MANIPUR"** (Number of Visits **5**)
 Master **J. W. Scum** Built at **Port - Glasgow** By whom built **Lithgows Limited** Tons { Gross **9242.19**
 Lines made at **Glasgow** By whom made **David Brown & Co. Ltd.** Net **5697.27**
 Engines made at _____ when made _____
 Owners **J + J. Brocklebank Ltd.** Port belonging to **Liverpool**
 Registered Horse Power _____ Is Refrigerating Machinery fitted for cargo purposes _____
 Horse Power as per Section 28 _____ Is Electric Light fitted _____

LINE S, &c. — Description of Engines

No. of Cylinders	Length of Stroke	Revs. per minute	No. of Cranks
_____	_____	_____	_____

Material of screw shaft _____ as per rule _____ as fitted _____
 Material of 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 _____
 Is the after end of the liner made water tight _____
 Is the space charged with a plastic material insoluble in water and non-corrosive _____
 If two _____
 Length of stern bush _____
 Dia. of Crank shaft journals _____ as per rule _____ as fitted _____
 Dia. of Crank pin _____
 Size of Crank webs _____
 Dia. of thrust shaft under _____
 Dia. of screw _____
 Pitch of Screw _____
 No. of Blades _____
 State whether moceable _____
 Total surface _____
 Diameter of ditto _____
 Stroke _____
 Can one be overhauled while the other is at work _____
 Diameter of ditto _____
 Stroke _____
 Can one be overhauled while the other is at work _____
 Sizes of Pumps _____
 No. and size of Suctions connected to both Bilge and Donkey pumps _____
 In Holds, &c. _____
 Connected to condenser, or to circulating pump _____
 Is a separate Donkey Suction fitted in Engine room & size _____
 Are the roses in Engine room always accessible _____
 Are the sluices on Engine room bulkheads always accessible _____
 Are they Valves or Cocks _____
 Are the Discharge Pipes above or below the deep water line _____
 Are the Blow Off Cocks fitted with a spigot and brass covering plate _____
 How are they protected _____
 Are the pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges _____
 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 _____
 Tested by hydraulic pressure to _____
 Date of test _____
 No. of Certificate _____
 Area of fire grate in each boiler _____
 No. and Description of Safety Valves to _____
 Area of each valve _____
 Pressure to which they are adjusted _____
 Are they fitted with easing gear _____
 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 _____
 Working pressure of shell by rules _____
 Size of manhole in shell _____
No. and Description of Furnaces in each boiler Material _____
 Outside diameter _____
 Thickness of plates _____
 Description of longitudinal joint _____
 No. of strengthening rings _____
 Combustion chamber plates: Material _____
 Thickness: Sides _____
 Back _____
 Top _____
 Bottom _____
 If stays are fitted with nuts or riveted heads _____
 Working pressure by rules _____
 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 _____
 Area supported by each stay _____
 Working pressure by rules _____
 Material of Front plates at bottom _____
 Thickness _____
 Greatest pitch of stays _____
 Working pressure of plate by rules _____
 Material of tube plates _____
 Thickness: Front _____
 Back _____
 Mean pitch of stays _____
 Working pressures by rules _____
 Girders to Chamber tops: Material _____
 Depth and _____
 Length as per rule _____
 Distance apart _____
 Number and pitch of stays in each _____
 Steam dome: description of joint to shell _____
 % of strength of joint _____
 Description of longitudinal joint _____
 Diam. of rivet holes _____
 Working pressure of shell by rules _____
 Crown plates _____
 Thickness _____
 How stayed _____

FEATER. Type _____
 Date of Approval of Plan _____
 Tested by Hydraulic Pressure to _____
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Pressure to which each is adjusted _____
 Is Easing Gear fitted _____

Lloyd's Register Foundation

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