

REPORT ON MACHINERY.

No. 38450.

Received at London Office THU. 22 MAY. 1919

4. Writing Report 19 When handed in at Local Office 16.5. 1919 Port of Glasgow

Survey held at Glasgow Date, First Survey 14/6/1918 Last Survey 2/4/1919
Book on the Magnus No 928. (H. Class) Is War Appld. (Number of Visits 56.) Tons Gross 2570 Net 1422

Builder Built at Clepston By whom built Fitch & Co. 88 No 365 When built 1919
Machinery made at Glasgow By whom made Walker & Baxter. Magnus No 928 when made 1919
Boilers made at By whom made when made

Registered Horse Power Owners Shipping Controller Port belonging to
Horse Power as per Section 28 331 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Engines, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
of Cylinders 22" x 36" x 59" Length of Stroke 39 Revs. per minute Dia. of Screw shaft as per rule 12.4" Material of screw shaft as fitted 13" Material of screw shaft

The screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight
The propeller boss Is If the liner is in more than one length are the joints burned 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
shafts are fitted, is the shaft lapped or protected between the liners Length of stern bush 58"

Dia. of Tunnel shaft as per rule 10.7 10.84. Dia. of Crank shaft journals as per rule 11.2 11.39
as fitted 11.4" Dia. of Crank pin 11.3/4" Size of Crank webs 22 1/2 x 7 1/4 Dia. of thrust shaft under
webs 11.3/4" Dia. of screw 15'-9" Pitch of Screw 15'-3" No. of Blades 4 State whether moceable No Total surface 77 1/2

of Feed pumps 2 Diameter of ditto 3" Stroke 24" Can one be overhauled while the other is at work Is
of Bilge pumps 2 Diameter of ditto 3" Stroke 24" Can one be overhauled while the other is at work Is
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 Suction fitted in Engine room & size
all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

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

at 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 any communication between the sea and the bilges

the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from
VALVES, &c.—(Letter for record) Manufacturers of Steel

Boiler 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

each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
boiler Area of each valve Pressure to 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
Long. 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 Working pressure of shell by rules Size of manhole in shell
Plate plate
of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
bottom Thickness of plates 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 Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

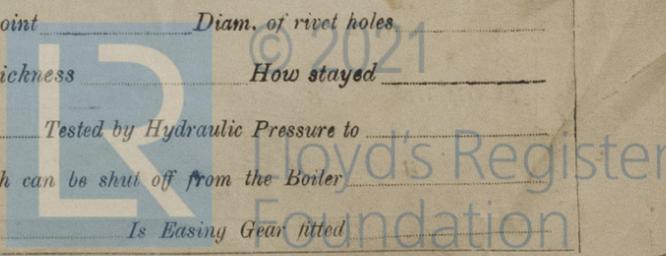
Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
Area at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

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 Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

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



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

M. A. Baxter Manufacturer.

Dates of Survey while building { During progress of work in shops -- } 1918 June 14-17-28 July 5-10-24-30 Aug. 6-9-20-22-28 Sept. 4-12-13 Oct. 2-15-18-22-24-29 Nov. 4-8-13-18
 { During erection on board vessel - - - } 27 Dec 2-6-9-12-16-18-23-27 1919 Jan 8-13-17-20-22-23-28 Feb 5-10-17-19 Mar 6-10-12-17-19-25-31
 Total No. of visits 56.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 18-10-18 Slides 10-3-19 Covers 4-12-18 Pistons 18-10-18 Rods 28-1-19
 Connecting rods 10-3-19 Crank shaft 22-1-19 Thrust shaft 23-1-19 Tunnel shafts 20-11-18 Screw shaft 20-11-18 Propeller 8-11-18
 Stern tube 13-11-18 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 Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers
 Material of Crank shaft S Identification Mark on Do. 22-1-19 J.E.S. Material of Thrust shaft S Identification Mark on Do. 23-1-19
 Material of Tunnel shafts S Identification Marks on Do. 20-11-18 J.E.S. Material of Screw shafts S Identification Marks on Do. 20-11-18

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 No If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)
 These engines have been constructed under special survey in accordance with rules and specification of the Shipping Controller and have been forwarded to Chepstow where they are to be fitted on board.

The amount of Entry Fee ... £ : : When applied for, 19.
 Special ... £ 27 : 16 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When received, 28/6/19

Committee's Minute GLASGOW 21 MAY 1919
 Assigned Transmit to London J.M.H.

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Certificate (if required) to be sent to The Surveyors are requested not to write on or below the space for Committee's Minute.