

REPORT ON MACHINERY.

No. 72189

Date of writing Report

19

When handed in at Local Office

20 NOV 1919

Port of

Received at London Office

NEWCASTLE-ON-TYNE

No. in Survey held at *South Shields*
Reg. Book. on theDate, First Survey *20th Mar 1918* Last Survey

19

Master

Built at *Alton*By whom built *Forth Shipbuilding Co Ltd*Tons { Gross
Net
When builtEngines made at *South Shields*By whom made *G. T. Grey & Co Ltd (592 Engine)* when made *1919*made at *Stockton*By whom made *Reid*

when made

Horse Power

Owners

Port belonging to

Horse Power as per Section 28

64

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

E/S, &c.—Description of Engines

Compound Inverted

No. of Cylinders

two

No. of Cranks

*two*Cylinders *14" - 34"*Length of Stroke *24"*

Revs. per minute

Dia. of Screw shaft

as per rule *7.55*
as fitted *8"*Material of screw shaft *Steel*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

If the liner is in more than one length are the joints burned

If the liner does not fit tightly at the part

If two

ings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

If two

is the shaft lapped or protected between the liners

Length of stern bush *2' - 8"*as per rule *6.8"*

Dia. of Crank shaft journals

as per rule *7.14*as fitted *7.35*Dia. of Crank pin *7 1/3"*Size of Crank webs *Built*

Dia. of thrust shaft under

Dia. of screw

Pitch of Screw

No. of Blades

State whether moveable

Total surface

Diameter of ditto *2 1/4"* Stroke *13"*Can one be overhauled while the other is at work *Yes*Diameter of ditto *2 3/8"* Stroke *13"*Can one be overhauled while the other is at work *Yes*

SIZES OF PUMPS

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

In Holds, &c.

ms *1* sizes *2 3/4"* Connected to condenser, or to circulating pump *CP* Is a separate Donkey Suction fitted in Engine room & size

tion pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

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

iently 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

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

urried through the bunkers How are they protected

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

tion Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

ft Tunnel watertight Is it fitted with a watertight door worked from

C.—(Letter for record) Manufacturers of Steel

Surface of Boilers Is Forced Draft fitted No. and Description of Boilers

ure Tested by hydraulic pressure to Date of test No. of Certificate

e worked separately 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

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

Length of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

ing ring No. and Description of Furnaces in each boiler Material Outside diameter

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

part bottom Thickness of plates bottom Description of longitudinal joint No. of strengthening rings

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

ditto: Sides Back Top 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

t 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

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

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

UPERHEATER. 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

W1109-0292

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— Two top end bolts and nuts ✓ Two bottom end bolts ✓
Two main Bearing Bolts and nuts, ✓ Spare Coupling bolts and nuts ✓ Feed and Re-
Value, ✓ and Circulating pump Valves, ✓ Assorted iron bolts and nuts, ✓
One Set of Joints, ✓ Spare propeller ✓ Spare piston pin and ring bolts & nuts ✓

The foregoing is a correct description,

For

GEO. T. GREY & CO., LTD.

H Hunter, Org Director

Manufacturers of Main Engines

Dates of Survey while building { During progress of work in shops - - } 1918
{ During erection on board vessel - - - } Mar 20. 27 Apr 26 May 23. 28. 31 June 3. 4. 12. 19. 24. July
Total No. of visits 12

Is the approved plan of main boiler forwarded here

Dates of Examination of principal parts—Cylinders 26.4.18 Slides 11.6.18 Covers 29.3.16 Pistons 24.5.18

Connecting rods 26.4.18 Crank shaft 2.6.18 Thrust shaft 2.6.18 Tunnel shafts Screw shaft 2.6.18 Prop

Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts 4.3.18

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 Steel Identification Mark on Do. 46/4 6AH Material of Thrust shaft Steel Identification Mark on Do. 59

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Steel Identification Marks on Do. 59

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 Engines duplicate of

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

The machinery built under Special Survey, material and workmanship fine and good -

The Engines have been forwarded to Alloa to be installed in a vessel built by Messrs The Forth Shipbuilding Coy. Ltd. and in my opinion will be eligible for entry with this Society

It is stated that the spare gear as mentioned above will be supplied by Engines - to be checked and examined on board.

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

Leonard Shallerons

Engineer Surveyor to Lloyd's Register

Committee's Minute

TUES. 7 APR 1925

Assigned

See Rot rpt 14159



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