

REPORT ON MACHINERY.

No. 45460

Received at London Office

23 JUN 1926

Date of writing Report 11th June, 1926 When handed in at Local Office 11th June, 1926 Port of GLASGOW.

Date in Survey held at
eg. Book.

Date, First Survey 2nd June

Last Survey 10th June, 1926

(Number of Visits 3.2)

Tons { Gross 67

Net 30

When built 1926-6.

on the Steel S.S. "CLYDEFORTH"

Built at Grangemouth

By whom built Grangemouth Dockyard Co. (N° 412)

Engines made at Leith

By whom made Bran & Sonewill Ltd (N° 248) when made 1926.

Boilers made at Annan

By whom made Cochran & Co. (Annan) Ltd. (N° 10024) when made 1926.

Registered Horse Power

Owners London, Midland & Scottish Railway Co.

Port belonging to Grangemouth

Horse Power as per Section 28 15

Is Refrigerating Machinery fitted for cargo purposes no

Is Electric Light fitted no

ENGINES, &c.—Description of Engines Compound

No. of Cylinders 2

No. of Cranks 2

Dia. of Cylinders 9" & 18"

Length of Stroke 12"

Revs. per minute 140

Dia. of Screw shaft

as per rule

Material of

as fitted

screw shaft

the screw shaft fitted with a continuous liner the whole length of the stern tube {no: 2 liners. Is the after end of the liner made water tight

propeller boss yes If the liner is in more than one length are the joints burned no If the liner does not fit tightly at the part

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

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

of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under

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

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

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

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

Engine Room 2 @ 2" In Hold, &c. 1 @ 2"

Bilge Injections One size 2" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size no

the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible none

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

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

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

pipes are carried through the bunkers none How are they protected

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

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

Screw Shaft Tunnel watertight none Is it fitted with a watertight door worked from

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

Heating Surface of Boilers 300 ft² Is Forced Draft fitted no No. and Description of Boilers 1- Vertical (Cochran) I.B.Working Pressure 130 lb./in² Tested by hydraulic pressure to 245 lb./in² Date of test 26-3-26 No. of Certificate 17079each boiler be worked separately Area of fire grate in each boiler 16.75 ft² No. and Description of Safety Valves toboiler 2 direct spring Area of each valve 3.14 in² Pressure to which they are adjusted 130 lb./in² Are they fitted with easing gear yes

at distance between boilers or uptakes and bunkers or woodwork well clear Mean dia. of boilers Length Material of shell plates

ess Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. 3/16

seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

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

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

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

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

of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

al of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

al Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

ess Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

er of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

ss of girder at centre Length as per rule Distance apart Number and pitch of stays in each

ing pressure by rules Steam dome: description of joint to shell % of strength of joint

er Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

f rivets Working pressure of shell by rules Crown plates Thickness How stayed

RHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

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

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

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Lloyd's Register
Foundation

W1325-0234

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description, Fifth Report.

Manufacturer.

Dates of Survey while building	{ During progress of work in shops - - }	1926 June 2-10
	{ During erection on board vessel - - }	
	Total No. of visits	2

Is the approved plan of main boiler forwarded herewith ☒

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 ✓ *Little America* Engine and boiler seatings 2-6-26 Engines holding down bolts 2-6-26
Completion of pumping arrangements 10-6-26 Boilers fixed 2-6-26 Engines tried under steam 10-6-26
Completion of fitting sea connections 2-6-26 Stern tube 2-6-26 Screw shaft and propeller { 2-6-26
Main boiler safety valves adjusted 10-6-26 Thickness of adjusting washers 16" P. 1/2" S.

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..... *Solid drawn copper*..... Test pressure..... *260 lbs./in.² (With Surveys)*.....
Is an installation fitted for burning oil fuel..... *no*..... 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 U.S. Pat. If so, state name of vessel B. L.

General Remarks (State quality of workmanship, opinions as to class, &c. *Machinery Report* — *Sept 17-1878*)

Boiler Report. — Glasgow N^o 45, 536.

NOW DONE: Engine & boiler seatings, fitting of sea connections, stern tube, tail shaft & propeller; examined.

The Engines & the Boiler have been properly fitted on board and tried under steam with satisfactory results.

This Machinery is now eligible in my opinion, to be
 classed in the Register Book with record: 4-L.M.C.-6.2
 as recommended by the Leith Surveyors.

It is submitted that
this vessel is eligible for
THE RECORD + LMC 6.26.

The amount of Entry Fee	£ 2	:	-	:	When applied for,
Special ...	£ 7	:	4/-	:	21-6-1926
Donkey Boiler Fee	£ 3	-	12/-	:	When received,
Travelling Expenses (if any)	£ -	:	9/-	:	30-9-1926

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 22 JUN 1926

Assigned + LMC 6.26

CERTIFIC

EN. 23/6/26

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