

REPORT ON MACHINERY.

No. 13584.

MUN. JUN. 30 1924

Received at London Office

Report of writing Report 24th June 1924 When handed in at Local Office 28th June 1924 Port of Aberdeen.
 in Survey held at Aberdeen Date, First Survey 28th January Last Survey June 1924
 eg. Book. on the S.S. GLEN DERRY.

Master Built at Aberdeen By whom built Messrs A. Hall & Co. Ltd. No. 591 Tons } Gross
 when built 1924

Engines made at Aberdeen By whom made Messrs A. Hall & Co. Ltd. No. 284 when made 1924

Boilers made at do By whom made do do No. 282 & 3 when made 1924

Registered Horse Power Owners John Cook & Son Ltd Port belonging to Aberdeen

Net Horse Power as per Section 28 158 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted yes

GINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

a. of Cylinders 17", 28", 48" Length of Stroke 33" Revs. per minute 90 Dia. of Screw shaft as per rule 9.9" Material of screw shaft S

the 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

the propeller boss yes 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

boilers are fitted, is the shaft lapped or protected between the liners Length of stern bush 3-6" see abn. ltr. 7/1/24

a. of Tunnel shaft as per rule 8.84" Dia. of Crank shaft journals as per rule 9.28" Dia. of Crank pin 9.5" Size of Crank webs 15.5" x 6.5" Dia. of thrust shaft under

bars 9.34" Dia. of screw 12'-0" Pitch of Screw 15'-6" No. of Blades 4 State whether moveable no Total surface 50ft

b. of Feed pumps 2 Diameter of ditto 2.34" Stroke 16" Can one be overhauled while the other is at work yes

b. of Bilge pumps 2 Diameter of ditto 2.34" Stroke 16" Can one be overhauled while the other is at work yes

b. of Donkey Engines three Sizes of Pumps Ballast 4" x 8" Dup. Feed 3" x 4" x 10" No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room { 3 of 2.4" Tunnel well, one @ 2.4" In Holds, &c. Fore hold 2 @ 2.2" Aft hold 3 @ 2.2"

b. of Bilge Injections 1 sizes 5.4" Connected to condenser, or to circulating pump in pumps a separate Donkey Suction fitted in Engine room & size yes 2.34"

are all 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

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

are 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 on

are they 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

that pipes are carried through the bunkers Bilge suction to fore hold How are they protected by strong wood casing

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

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

the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Engine top platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel David Colville & Sons

Total Heating Surface of Boilers 2584 Is Forced Draft fitted no No. and Description of Boilers 2 Cyl. Multi S.E.

Working Pressure 190 lbs Tested by hydraulic pressure to 335 lbs Date of test 15-5-24 No. of Certificate 1029/1030

can each boiler be worked separately yes Area of fire grate in each boiler 30ft No. and Description of Safety Valves to

each boiler 2 direct spring Area of each valve 5.9" Pressure to which they are adjusted 195 lbs Are they fitted with easing gear yes

smallest distance between boilers or uptakes and bunkers or woodwork 13" INTERNAL Mean dia. of boilers 12'-3.5" Length 10'-6" Material of shell plates S

Thickness 1.5" Range of tensile strength 28-32 lbs Are the shell plates welded or flanged no Descrip. of riveting: cir. seams D.R. Lap

long. seams 3 row DB Diameter of rivet holes in long. seams 1.3" Pitch of rivets 8.2" 5.4" Lap of plates or width of butt straps 18"

Per centages of strength of longitudinal joint rivets 89.1 plate 86.1 Working pressure of shell by rules 201 lbs Size of manhole in shell 16" x 12"

Size of compensating ring 8.5" x 1.5" DB No. and Description of Furnaces in each boiler 2 Fox Material S Outside diameter 45"

Length of plain part top 6.4" bottom 6.4" Thickness of plates crown 1.9" bottom 1.9" Description of longitudinal joint weld No. of strengthening rings

Working pressure of furnace by the rules 192 lbs Combustion chamber plates: Material S Thickness: Sides 1.5" Back 1.5" Top 1.5" Bottom 1.5"

Pitch of stays to ditto: Sides 10" x 9.5" Back 10" x 9.5" Top 10" x 9" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 207.6 lbs

Material of stays S Area at smallest part 2.07 Area supported by each stay 95" Working pressure by rules 191 lbs End plates in steam space:

Material S Thickness 1.5" Pitch of stays 18" x 16" How are stays secured D.N.W. Working pressure by rules 202.7 Material of stays S

Area at smallest part 6.10" Area supported by each stay 288" Working pressure by rules 202.7 Material of Front plates at bottom S

Thickness 1.5" Material of Lower back plate S Thickness 1.5" Greatest pitch of stays 14.5" x 10" Working pressure of plate by rules 193.5

Diameter of tubes 3.5" Pitch of tubes 1.5" x 1.5" Material of tube plates S Thickness: Front 1.5" Back 1.5" Mean pitch of stays 9.5"

Pitch across wide water spaces 14.5" Working pressures by rules 192 lbs Girders to Chamber tops: Material S Depth and

thickness of girder at centre 8.5" x 1.5" Length as per rule 30" Distance apart 9" Number and pitch of stays in each 2 @ 10"

Working pressure by rules 226.5 Steam dome: description of joint to shell none % 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 none 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? No

If so, is a report now forwarded? ✓

SPARE GEAR. State the articles supplied:— Two top & two bottom end bolts & nuts. 2 main bearings & one set of coupling bolts & nuts. 1 set each Air, Feed & Bilge pump valves, one main & donkey feed check valves, 2 safety valve springs, 6 Condenser tubes, 3 patent tube stoppers for Boilers. a quantity of bolts nuts & studs, and iron of various sizes.

The foregoing is a correct description,

FOR ALEXANDER HALL & CO., LTD.

A. G. Smith
SECRETARY.

Manufacturer of main Engines & Boilers.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits

Jan 28. - Feb 7. 18, 25. - Mar 5. 10, 28. - Apr 10, 22, 25, 29. - May 7, 14, 15, 17, 19.
May 22, 29. - June 5, 6, 11, 13, 16, 17, 18.
25.

Is the approved plan of main boiler forwarded herewith

Yes

„ „ „ donkey „ „ „

Dates of Examination of principal parts—Cylinders 10.4.24 Slides 10.4.24 Covers 5.3.24 Pistons 5.3.24 Rods 5.3.24
Connecting rods 10.4.24 Crank shaft 18.2.24 Thrust shaft 25.4.24 Tunnel shafts 25.4.24 Screw shaft 14.5.24 Propeller 14.5.24
Stern tube 14.5.24 Steam pipes tested 29.5.24 Engine and boiler seatings 17.5.24 Engines holding down bolts 11.6.24
Completion of pumping arrangements 16.6.24 Boilers fixed 11.6.24 Engines tried under steam 16.17.6-24
Completion of fitting sea connections 14.5.24 Stern tube 14.5.24 Screw shaft and propeller 19.5.24
Main boiler safety valves adjusted 16.6.24 Thickness of adjusting washers PE BL F.V. 1 1/2" A.V. 3/8" S.B. F.V. 3/2" A.V. 1 1/2"
Material of Crank shaft S Identification Mark on Do. 5232 E.E.A. Material of Thrust shaft S Identification Mark on Do. 1426 A.T.
Material of Tunnel shafts S Identification Marks on Do. 1435 6/7 A - Material of Screw shafts S Identification Marks on Do. 17H E.E.A.
Material of Steam Pipes S. D Copper 3 1/2" bore 7:6 W.G. Test pressure 380 lbs per sq in
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 No If so, state name of vessel ✓

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

These Engines and Boilers have been constructed under special survey and in accordance with the Secretary's letter, the rules and approved plans. The Materials and workmanship are good, when completed and properly fitted on board, they were tried under steam at the moorings with satisfactory results, and are now in good order, and in my opinion entitled to the record of LMC 6.24. in red, in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 6.24. CL.

W.D. Smith
27/7/24

The amount of Entry Fee ... £ 3 : 0
Special ... £ 39 : 10
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) £ :

When applied for,

27 June 1924

When received,

27 June 1924

Committee's Minute

FRI 4 JUL 1924

Assigned

+ Lmb 6.24



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