

## REPORT ON MACHINERY.

42124  
No. 420113  
MED. AUG. 30 1922

Date of writing Report 24.6.22 When handed in at Local Office 24.6.22 Port of Glasgow 7th August  
 No. in Survey held at Glasgow Grangemouth Date, First Survey 27.6.1920 Last Survey 11 June 1922  
 Reg. Book. on the S.S. LAUREL PARK (Number of Visits 31) Gross 1935 Net 1188

Master Built at Grangemouth By whom built Grangemouth & Kyles Bole No 406 When built 1922

Engines made at Glasgow By whom made W. Rowan & Co. Ltd (No 756) when made 1921

Boilers made at do By whom made do No 756 when made 1921

Registered Horse Power Owners Denholm Line (J. & F. Denholm Mgrs). Port belonging to Glasgow.

Nom. Horse Power as per Section 28 227 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3  
 Dia. of Cylinders 21-35-57 Length of Stroke 36 Revs. per minute 69 Dia. of Screw shaft as per rule 11.782 as fitted 12 Material of iron screw shaft  
 Is 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 in 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 Yes If two liners are fitted, is the shaft lapped or protected between the liners — Length of stern bush 4.0  
 Dia. of Tunnel shaft as per rule 10.28 as fitted 10 Dia. of Crank shaft journals as per rule 10.79 as fitted 11 Dia. of Crank pin 11 Size of Crank webs 21 1/4 x 7 Dia. of thrust shaft under collars 11 1/4 Dia. of screw 14-9 Pitch of Screw 16-0 No. of Blades 4 State whether moveable No Total surface 68 1/4  
 No. of Feed pumps 2 Diameter of ditto 3 1/4 Stroke 18 Can one be overhauled while the other is at work Yes  
 No. of Bilge pumps 2 Diameter of ditto 3 1/2 Stroke 18 Can one be overhauled while the other is at work Yes  
 No. of Donkey Engines 2 Sizes of Pumps General 7 x 5 x 8 Ballast 9 x 11 x 10 No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room (2) 2 3/4" Strokehold (2) 3" In Holds, &c. Forehold (2) 2 1/2" aft Hold  
 (2) 2 1/2" (1) 2 1/2" Tunnel well (1) 2 1/2"  
 No. of Bilge Injections 1 sizes 4 1/2 Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size Yes 3"  
 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 No  
 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 below  
 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  
 What pipes are carried through the bunkers none How are they protected  
 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  
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from upper deck.

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel do Colville & Sons Ltd

Total Heating Surface of Boilers 3712 1/4 Is Forced Draft fitted No No. and Description of Boilers 2 Single ended  
 Working Pressure 180 lb Tested by hydraulic pressure to 360 Date of test 25.2.21 No. of Certificate 15720  
 Can each boiler be worked separately Yes Area of fire grate in each boiler 56.5 1/4 No. and Description of Safety Valves to each boiler 2 Spring loaded Area of each valve 593 1/4 Pressure to which they are adjusted 185 lb Are they fitted with easing gear Yes  
 Smallest distance between boilers or uptakes and bunkers or woodwork 6" Mean dia. of boilers 14-6 Length 10-6 Material of shell plates Steel  
 Thickness 1 1/4" Range of tensile strength 25320 lb Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Lap 12 long. seams TRDBS Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 8 3/4 Lap of plates or width of butt straps 18 1/2  
 Per centages of strength of longitudinal joint rivets 90.5 plate 85.5 Working pressure of shell by rules 181 Size of manhole in shell 16 x 12  
 Size of compensating ring 29 1/2 x 33 1/2 x 1 1/4 No. and Description of Furnaces in each boiler 3 corrugated Material Steel Outside diameter 30 9/16  
 Length of plain part top Thickness of plates crown 17 Description of longitudinal joint Welded No. of strengthening rings bottom 32  
 Working pressure of furnace by the rules 181 Combustion chamber plates: Material Steel Thickness: Sides 23 Back 8 Top 32 Bottom 32  
 Pitch of stays to ditto: Sides 8 3/8 x 9 Back 9 1/4 x 8 Top 9 1/8 x 10 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180  
 Material of stays Steel Area at smallest part 2.07 Area supported by each stay 74 1/4 Working pressure by rules 251 End plates in steam space: Material Steel Thickness 1 1/4 Pitch of stays 21 1/4 x 19 How are stays secured Nuts Working pressure by rules 182 Material of stays Steel  
 Area at smallest part 7.06 Area supported by each stay 403 1/4 Working pressure by rules 181 Material of Front plates at bottom Steel  
 Thickness 32 Material of Lower back plate Steel Thickness 32 Greatest pitch of stays 13 Working pressure of plate by rules 181  
 Diameter of tubes 3 1/2 Pitch of tubes 5 x 5 Material of tube plates Steel Thickness: Front 29 Back 16 Mean pitch of stays 11 1/4  
 Pitch across wide water spaces 14 Working pressures by rules 187 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 1/2 x 7 1/2 (2) Length as per rule 2-6 1/6 Distance apart 10 Number and pitch of stays in each (2) 9 1/8  
 Working pressure by rules 189 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

W1272 70042



If so, is a report now forwarded? Yes Gls Ph 40554.

*State the articles supplied :—*

*The foregoing is a correct description,*

Dates of Survey while building { During progress of work in shops - { 1920 Jun 27 July 13 Aug 16 Oct 8 Nov 10. 12 25 26 30 Dec 2 8 15 27 30 (1921) Jan 11 25 Feb 7 15 16 25  
During erection on board vessel - - { Mar 25 Apr 4 5 8 12 18 21 25 May 9. (1922) Jun 14 Aug 7.  
Total No. of visits 28.31

Is the approved plan of main boiler forwarded herewith sent.

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 yes If so, state name of vessel Gr Myrtlepark.

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

The machinery has been built under Special Survey in accordance with the Rules and approved Plans.

It has now been efficiently fitted on board the vessel and in  
our opinion is eligible for records of + LMC. 8-22. Elec-light.

It is submitted that  
this vessel is eligible for  
THE RECORD. + LMC 8.22. CL

Ind. 12. 31/8/22

The amount of Entry Fee	...	£ 4	:	0	:	} When applied for, 23/8/1922
Special	...	£ 56	:	15	:	
Donkey Boiler Fee	...	£	:		:	
Travelling Expenses (if any)	£ 1	:	6	:	3	} When received, 25/8/1922

Engineer Surveyor to Lloyd's Register of Shipping.

## Committee's Minute

Assigned + LMC 8.22

MACHREBI DEPT  
WRITTEN 10

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Foundation