

REPORT ON MACHINERY.

No. 31195

Received at London Office WED. MAR. 13. 1912

of writing Report 16. 2. 1912 When handed in at Local Office 9/3/12 Port of Glasgow

in Survey held at Glasgow Date, First Survey 7th April 1912 Last Survey 6th March 1912

Book on the S/S "Raldar" (Number of Vists 86) Tons Gross 4918.80 Net 3091.90

ter A. McMan Built at Glasgow By whom built G. Coumell & Co. When built 1912

ines made at Glasgow By whom made Dunrobin Jackson & Co. (2366) when made 1912

ers made at ditto By whom made ditto when made 1912

istered Horse Power Owners Messrs Turner & Co. Port belonging to Liverpool

Horse Power as per Section 28 455 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

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

of Cylinders 25.42.40 Length of Stroke 48 Revs. per minute 65 Dia. of Screw shaft as per rule 14.8 as fitted 16 Material of screw shaft Iron

he 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 banded No If the liner does not fit tightly at the part

een the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive No If two

rs are fitted, is the shaft lapped or protected between the liners Length of stern bush 64

of Tunnel shaft as per rule 13.32 as fitted 13.2 Dia. of Crank shaft journals as per rule 13.9 as fitted 14 Dia. of Crank pin 14 Size of Crank webs 24x9 1/2 Dia. of thrust shaft under

ars 14 Dia. of screw 18.0 Pitch of Screw 19.0 No. of Blades 4 State whether moveable Yes Total surface 99 1/2

of Feed pumps 2 Diameter of ditto 4 1/2 Stroke 24 Can one be overhauled while the other is at work Yes

of Bilge pumps 2 Diameter of ditto 4 1/2 Stroke 24 Can one be overhauled while the other is at work Yes

of Donkey Engines 3 Sizes of Pumps 4 1/2, 9, 6, 10, 5, 7, 12 No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 4 at 3 1/2 Tunnel Well 2 1/2 In Holds, &c. 2 at 3 1/2 in each hold

of Bilge Injections 1 sizes 5 Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 3 1/2

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 Yes

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 Both

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

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

Dates of examination of completion of fitting of Sea Connections 31-1-12 of Stern Tube 31-1-12 Screw shaft and Propeller 31-1-12

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from UER Platform

MANIFIEST, &c.—(Letter for record 217) Manufacturers of Steel Colville & Co.

Total Heating Surface of Boilers 6324 Is Forced Draft fitted Yes No. and Description of Boilers 3 Single ended

Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 19-12-11 No. of Certificate 11336

Can each boiler be worked separately Yes Area of fire grate in each boiler 54.5 No. and Description of Safety Valves to

each boiler 2 Direct Spring Area of each valve 8.29 Pressure to which they are adjusted 205 Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 2 Mean dia. of boilers 16.9 1/6 Length 2.9 Material of shell plates S

Thickness 19 1/6 Range of tensile strength 29/32 Are the shell plates welded or flanged Yes Descrip. of riveting: cir. seams CR

Long. seams TR 0 D B S Diameter of rivet holes in long. seams 19 1/6 Pitch of rivets 10 1/2 Lap of plates or width of butt straps 1-11

Per centages of strength of longitudinal joint rivets 83.95/100 plate 85.12/100 Working pressure of shell by rules 225 Size of manhole in shell 16x12

Size of compensating ring 30 1/2 No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 4.2

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

Working pressure of furnace by the rules 219 Combustion chamber plates: Material S Thickness: Sides 11 1/6 Back 11 1/6 Top 11 1/6 Bottom 11 1/6

Pitch of stays to ditto: Sides 8 1/6 x 9 3/8 Back 8 7/8 x 8 7/16 Top 4 1/2 x 8 3/4 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 215

Material of stays Iron Diameter at smallest part 3 7/8 3 4/8 Area supported by each stay 45 Working pressure by rules 223 End plates in steam space:

Material S Thickness 1 5/32 Pitch of stays 18 x 1 5/32 How are stays secured DN Working pressure by rules 210 Material of stays Steel

Diameter at smallest part 5 3/32 Area supported by each stay 283.5 Working pressure by rules 215 Material of Front plates at bottom S

Thickness 3 1/32 Material of Lower back plate S Thickness 2 1/32 Greatest pitch of stays 14 1/4 Working pressure of plate by rules 230

Diameter of tubes 2 1/2 Pitch of tubes 3 5/8 x 3 11/16 Material of tube plates S Thickness: Front 3 3/8 x 1 7/32 Back 2 7/32 Mean pitch of stays 8 5/8

Pitch across wide water spaces 13 1/2 Working pressures by rules 215 Girders to Chamber tops: Material S Depth and

thickness of girder at centre 11 1/2 Length as per rule 3-5 Distance apart 8 3/4 Number and pitch of stays in each 4 at 4 1/2

Working pressure by rules 210 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

MS 100-915M



