

Rpt. 4.

## REPORT ON MACHINERY.

No. 41518.

Received at London Office

WED. 30 NOV. 1921

Date of writing Report April 23<sup>rd</sup> 1921 When handed in at Local Office 28. 11. 1921 Port of GLASGOW.  
 No. in Survey held at Ardrossan Date, First Survey 23<sup>rd</sup> Sept 1920 Last Survey 18<sup>th</sup> Nov 1921  
 Reg. Book. on the SS KENMARE. (Number of Visits 28) Tons { Gross  
 Master Built at Ardrossan By whom built Ard. S.B. & D.D. Coy Ltd When built 1921  
 Engines made at Greenock By whom made J. G. Kincaid & Co Ltd. when made 1921  
 Boilers made at Greenock By whom made J. G. Kincaid & Co Ltd when made 1921  
 Registered Horse Power Owners City of Cork Steam Packet Co Port belonging to Cork.  
 Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted Yes

**ENGINES, &c.—Description of Engines**

Description of Engines		No. of Cylinders	No. of Cranks
Dia. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft
Is the screw shaft fitted with a continuous liner the whole length of the stern tube		Is the after end of the liner made water tight	
in the propeller boss		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	
liners are fitted, is the shaft lapped or protected between the liners		Length of stern bush	
Dia. of Tunnel shaft	Dia. of Crank shaft journals	Dia. of Crank pin	Size of Crank webs
collars	Dia. of screw	Pitch of Screw	No. of Blades
No. of Feed pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work
No. of Bilge pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work
No. of Donkey Engines	Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps	
In Engine Room	<u>5 @ 2 1/2"</u>	In Holds, &c. <u>F. Peak 1 @ 2 1/2" N°1 Hold 2 @ 2 1/2"</u>	
No. of Bilge Injections	sizes	Connected to condenser, or to circulating pump	
Are all the bilge suction pipes fitted with roses		Yes Are the roses in Engine room always accessible	
Are all connections with the sea direct on the skin of the ship		Yes Are they Valves or Cocks	
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	
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	
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		Is it fitted with a watertight door	

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

**Total Heating Surface of Boilers** Is Forced Draft fitted No. and Description of Boilers

**Working Pressure** Tested by hydraulic pressure to Date of test No. of Certificate

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

Area of each valve Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Yes

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

Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

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

Per centages of strength of longitudinal joint rivets. Working pressure of shell by rules Size of manhole in shell

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

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

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

Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space:

Material of stays Area at smallest part Area supported by each stay Working pressure by rules

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom

Area at smallest part Area supported by each stay Working pressure by rules Working pressure of plate by rules

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

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

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

thickness 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

**SUPERHEATER.** 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

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Lloyd's Register

00014-00259-0172



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - }  
During erection on board vessel - - } 1920 Apr 23-29 Nov 10-16-25 Dec 15-22-29 1921 Jan 27 Feb 4 May 11 Aug 11-22-24 Sep 7-30 Oct 6-11-14-18-19-21 Nov 1-8-10-11-17-18.  
Total No. of visits 28

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods  
Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller 6-10-21

Stern tube Steam pipes tested Engine and boiler seatings 29-12-20 Engines holding down bolts

Completion of pumping arrangements 14-11-21 Boilers fixed Engines tried under steam 18-11-21.

Completion of fitting sea connections 29-12-20 Stern tube 24-1-21 Screw shaft and propeller 11-10-21

Main boiler safety valves adjusted 10-11-21 Thickness of adjusting washers AFT. P. Blv. AV 31/64 FV 18/32 A.S. Blv. AV 1/8 FV 15/64 For P. Blv. AV 1/64 FV 11/64 F.S. Blv. AV 29/64 FV 29/64

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 Test pressure

Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150° F. Yes. ✓

Have the requirements of Section 49 of the Rules been complied with Yes. ✓

Is this machinery duplicate of a previous case If so, state name of vessel

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

The seacocks, stern tube and propeller have been fitted in a satisfactory manner.

Oil fuel installation completed in accordance with rule requirements

All machinery tested under working conditions and found satisfactory

The machinery of this vessel is eligible in my opinion to be classed

+ LMC 11-21 Fitted for oil fuel 11-21. F.P. above 150° as recommended

in Greenock report N° 14919

It is submitted that  
this vessel is eligible for  
THE RECORD.

+ L.M.C. - 11.21. F.D. C.L.

Fitted for Oil Fuel, 11.21., F.P. above 150° F.

MACHINERY CERT.  
WRITTEN 3-1-22  
(dated 30/12/21)

30/12/21

The amount of Entry Fee ... £

Special ... £

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for

When received.

GLASGOW

29 NOV 1921

David C Barr.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned See Grk. Rpt. No 17919.



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Foundation