

## REPORT ON MACHINERY

No. 40794  
WED. 19 JAN. 1921

Received at London Office

Date of writing Report 17.1.1921 When handed in at Local Office 17.1.1921 Port of GLASGOW  
No. in Survey held at Paisley & Glasgow Date, First Survey 23.9.1919 Last Survey 14.1.1921  
Reg. Book. on the Machinery of S.S. KERRY MORE. (Number of Visits 30)  
Master Built at Larne By whom built Larne SBC's (78) Tons } Gross  
Engines made at Paisley By whom made Campbell & Calderwood N° 966 when made 1921 } Net  
Boilers made at Paisley By whom made A. F. Craig & Co Ltd N° 680 when made 1921 }  
Registered Horse Power Owners John Kelly, Ld. Port belonging to Belfast  
Nom. Horse Power as per Section 28 48 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3  
Dia. of Cylinders 13" 21" 34" Length of Stroke 24" Revs. per minute Dia. of Screw shaft as per rule 4.34 Material of steel  
as fitted 4.2 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 — If two  
liners are fitted, is the shaft lapped or protected between the liners — Length of stern bush 2'-6"  
Dia. of Tunnel shaft as per rule 6.48 Dia. of Crank shaft journals as per rule 6.8" Dia. of Crank pin 4" Size of Crank webs 12 1/2 x 4 1/2 Dia. of thrust shaft under  
collars 4" Dia. of screw 9' 0" Pitch of Screw 11' 0" No. of Blades 4 State whether moveable No Total surface 33 1/2 sq ft  
No. of Feed pumps 1 Diameter of ditto 3" Stroke 12" Can one be overhauled while the other is at work — } See London letter  
No. of Bilge pumps 1 Diameter of ditto 3" Stroke 12" Can one be overhauled while the other is at work — } E. 24-6-20  
No. of Donkey Engines 2 Sizes of Pumps Feed 7x5x12 Ballast 6x4x10 No. and size of Suctions connected to both Bilge and Donkey pumps  
In Engine Room Two at 2" In Holds, &c. For 2 at 2"

No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size Yes 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 None  
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 Above  
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 Bilge and Ballast suction How are they protected 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  
Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door — worked from —

## BOILERS, &amp;c.—(Letter for record S) Manufacturers of Steel

Total Heating Surface of Boilers 1439 Is Forced Draft fitted No No. and Description of Boilers One S.E. Marine  
Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 20-4-20 No. of Certificate 15235  
Can each boiler be worked separately — Area of fire grate in each boiler 52 sq ft No. and Description of Safety Valves to  
each boiler Two direct spring loaded Area of each valve 5.94 Pressure to which they are adjusted Are they fitted with easing gear  
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  
plate  
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  
Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:  
Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays  
Area at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom  
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

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?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Campbell Macdonald & Co  
Glasgow  
Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1919 Sep 23 Oct 22 31 Nov 14 18 25 Dec 11 (1920) Jan 12 Feb 2 11 20 Mar 4 10 19 May 26 Jun 1 8 Sep 13 Nov 1920  
During erection on board vessel - - - Dec 2 14 21 23 27 29 30 31 (1921) Jan 11 14  
Total No. of visits 30

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 14-11-19 Slides 12-1-20 Covers 12-1-20 Pistons 4-3-20 Rods 4-3-20

Connecting rods 4-3-20 Crank shaft 12-1-20 Thrust shaft 8-6-20 Tunnel shafts — Screw shaft 8-6-20 Propeller 8-6-20

Stern tube 12-1-20 Steam pipes tested 23-12-20 Engine and boiler seatings See Report Engines holding down bolts 30/12/20

Completion of pumping arrangements Boilers fixed 29.12.20 Engines tried under steam

Completion of fitting sea connections See Report Stern tube See Report Screw shaft and propeller See Report

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft Steel Identification Mark on Do. 966 D.C.B. 8-6-20 Material of Thrust shaft Steel Identification Mark on Do. 966 D.C.B. 8-6-20

Material of Tunnel shafts None Identification Marks on Do. — Material of Screw shafts Steel Identification Marks on Do. 966 D.C.B. 8-6-20

Material of Steam Pipes S.D. Copper Test pressure 360 lbs

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. The machinery of this vessel is

new built under Special Survey & workmanship is of a good quality

The machinery is eligible in our opinion for the record

of + L.M.C. with date when the Survey is completed as

below

Safety valves adjusted under steam

Pumping arrangements tested under working conditions

Spare gear checked

Machinery tried under steam

The vessel is leaving this port for Larne in tow

Self and Surveyors advised

The amount of Entry Fee ... £ 2 : 7 : When applied for,

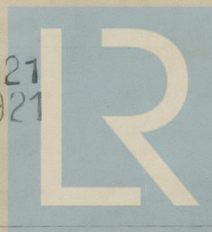
Special ... £ 19 : 10 : 17.1.1921 W. Gordon Macdonald & D. C. Barr.

Donkey Boiler Fee ... £ : : When received,

Travelling Expenses (if any) £ 22.3.1921

Committee's Minute GLASGOW: 18 JAN 1921

Assigned Deferred



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