

REPORT ON MACHINERY.

No. 17919

Received at London Office 30 NOV. 1921

Date of writing Report 17 Nov 1921 When handed in at Local Office 19 Nov 1921 Port of GreenockNo. in Survey held at Greenock
Reg. Book.Date, First Survey 28th October, 1919. Last Survey 10th August, 1921

(Number of Visits 115)

on the Old Steamer KermareMaster Built at Anderson By whom built Anderson & Co.Tons { Gross
Net
When built 1921Engines made at Greenock By whom made John S Kincaid & Co. when made 1921Boilers made at Greenock By whom made John S Kincaid & Co. when made 1921

Registered Horse Power Owners Port belonging to

Nom. Horse Power as per Section 28 553 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Compound No. of Cylinders From No. of Cranks From
Dia. of Cylinders 36" 42" 48" 48" Length of Stroke 42" Revs. per minute 95 Dia. of Screw shaft as per rule 13.75 Material of Steel
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 56"
Dia. of Tunnel shaft as per rule 12.85 Dia. of Crank shaft journals as per rule 13.5 Dia. of Crank pin 13.75 Size of Crank webs 27 1/2 x 9 Dia. of thrust shaft under
collars 13.75 Dia. of screw 14.0 Pitch of Screw 18.5 No. of Blades 4 State whether moveable Yes Total surface 74 sq ft
No. of Feed pumps Two Diameter of ditto 8" Stroke 20" Can one be overhauled while the other is at work Yes
No. of Bilge pumps Two Diameter of ditto 3 1/2" Stroke 21" Can one be overhauled while the other is at work Yes
No. of Donkey Engines Two Sizes of Pumps 10" x 10" 6" x 8" No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room In Holds, &c.

Circulating Pump Exhaust EngineNo. of Bilge Injections Two sizes 8" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes

Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

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

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates 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 Are the Blow Off Cocks fitted with a spigot and brass covering plate

What pipes are carried through the bunkers How are they protected

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

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

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top of the frameBOILERS, &c.—(Letter for record Yes) Manufacturers of Steel White Iron, Chapman IronTotal Heating Surface of Boilers 8932 Is Forced Draft fitted Yes No. and Description of Boilers From Single EndedWorking Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 28/7/20 8/10/20 No. of Certificate 1496-1502Can each boiler be worked separately Yes Area of fire grate in each boiler 53.62 sq ft No. and Description of Safety Valves toeach boiler Two Spring Area of each valve 8.29 sq in Pressure to which they are adjusted lbs Are they fitted with easing gear YesSmallest distance between boilers or uptakes and bunkers or woodwork 13 Mean dia. of boilers 13.9 Length 12.0 Material of shell plates SteelThickness 1 1/2 Range of tensile strength 28-32 Are the shell plates welded or flanged Yes Descrip. of riveting: seams all on edgeLong. seams all on edge Diameter of rivet holes in long. seams 1 7/16 Pitch of rivets 9/8 Lap of plates or width of butt straps 19 1/2Percentage of strength of longitudinal joint rivets 85-85 Working pressure of shell by rules 211 lbs Size of manhole in shell 16" x 12"Size of compensating ring 8" x 1 1/2 No. and Description of Furnaces in each boiler 3 Furnaces Material Steel Outside diameter 43 1/4Length of plain part top Thickness of plates crown Description of longitudinal joint welded No. of strengthening rings OneWorking pressure of furnace by the rules 203 lbs Combustion chamber plates: Material Steel Thickness: Sides 1 1/4 Back 1 1/4 Top 1 1/4 Bottom 1 3/4Pitch of stays to ditto: Sides 8 7/8 x 8 1/2 Back 8 1/4 Top 8 7/8 x 5 1/4 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 211 lbsMaterial of stays Steel Area at smallest part 2.1 sq in Area supported by each stay 78 sq in Working pressure by rules 203 lbs End plates in steam space:Material Steel Thickness 1 1/4 Pitch of stays 20 x 18 How are stays secured all nuts Working pressure by rules 204 lbs Material of stays SteelArea at smallest part 7.24 sq in Area supported by each stay 16 sq in Working pressure by rules 209 lbs Material of Front plates at bottom SteelThickness 1 1/2 Material of Lower back plate Steel Thickness 1 1/4 Greatest pitch of stays 13 Working pressure of plate by rules 205 lbsDiameter of tubes 2 1/2 Pitch of tubes 3 3/4 x 3 7/8 Material of tube plates Steel Thickness: Front 1 1/2 Back 1 1/4 Mean pitch of stays 7.8Pitch across wide water spaces 13 1/2 Working pressures by rules 209 lbs Girders to Chamber tops: Material Steel Depth andThickness of girder at centre 10 1/4 x 1 1/4 Length as per rule 37.62 Distance apart 8 1/4 Number and pitch of stays in each Three 8 7/8Working pressure by rules 205 lbs 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

202249-20259-013

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— The top end bolts. The bottom end bolts. The main
bearing bolts. One set coupling bolts. One set dead pump valves. One set
Ridge pump valves. One pair crank pin bushes. One escape valve opening cock
One safety valve opening bolts etc. One pair top end bushes.

The foregoing is a correct description,

JOHN G. KINCAID & COY., LIMITED

Geo. Y. Carter

Manufacturer.

Dates of Survey while building
During progress of work in shops -- 1919. Oct 23. Nov 21-24-28. Dec 2-8-12-15-18-22-26-30. 1920. Jan 8-13-16-20-23-28. Feb. 3-10-17-19-24. Mar. 1-4-8-10-17-22-26-30.
During erection on board vessel -- 31. Oct 2-7-13-19-28. May. 5-7-13-17-21-26-31. June 4-8-9-11-16-24. July 15-21-26-28. Aug. 2-4-11-17-19-25-30. Sept 2-6-8-11-14.
Total No. of visits 115.

Is the approved plan of main boiler forwarded herewith

donkey

Dates of Examination of principal parts—Cylinders 15/7/20 Slides 28/7/20 Covers 15/7/20 Pistons 28/8/20 Rods 21/7/20

Connecting rods 21/7/20 Crank shaft 29/6/20 Thrust shaft 29/6/20 Tunnel shafts 30/7/20 Screw shaft 29/6/20 Propeller

Stern tube 14/9/20 Steam pipes tested 24/6/21 10/5/21 Engine and boiler seatings Engines holding down bolts 20/7/21

Completion of pumping arrangements Boilers fixed 7/6/21 Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft Steel Identification Mark on Do. 380 Material of Thrust shaft Steel Identification Mark on Do. 380

Material of Tunnel shafts Steel Identification Marks on Do. 380 Material of Screw shafts Steel Identification Marks on Do. 380

Material of Steam Pipes Iron Test pressure 600 lb

Is an installation fitted for burning oil fuel Yes 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 O. J. Ordmore SA RH 17792

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

The Engines and Boilers of this steamer have been
Constructed under Special Survey and placed on board in
accordance with the Society's Rules. They are now in our
opinion in safe working condition, and the case is respectfully
submitted for the notification of L.M.C. 11-21 fitted for oil
fuel 11-21 F.P. above 150°F

The amount of Entry Fee ... £ 6 : 0
Special ... £ 102 : 10
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) £ 3 : 0
When applied for, 22/11/1921
When received, 30/12/21

James James

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned + L.M.C. 11,21.

Fitted for oil fuel 11,21 F.P. above 150°F



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Foundation