

# REPORT ON MACHINERY.

No. 8290

Received at London Office

AUG 1921

Date of writing Report AUG 1921 When handed in at Local Office 8 AUG 1921 Port of DUNDEE

No. in Survey held at Dundee Date, First Survey 16<sup>th</sup> Oct. 1919 Last Survey 2<sup>nd</sup> Feb. 1921  
Reg. Book. on the Steel screw steamer "Salcombe Regis" (Number of Visits 20)

Master \_\_\_\_\_ Built at Lowestoft By whom built J. Chambers & Co. Ltd. Tons Gross 610  
When built 1921 Net 277

Engines made at Dundee By whom made Yeaman & Baggesen when made 1921

Boilers made at Glasgow By whom made Jas. Neilson & Son Ltd. when made 1921

Registered Horse Power \_\_\_\_\_ Owners Harrison & Son Port belonging to London

Nom. Horse Power as per Section 28 96 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 14 23 38 Length of Stroke 24 Revs. per minute \_\_\_\_\_ Dia. of Screw shaft as per rule 7.8 Material of Steel  
as fitted 8.4 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'-9"

Dia. of Tunnel shaft as per rule 4.11 Dia. of Crank shaft journals as per rule 4.44 Dia. of Crank pin 4 3/4 Size of Crank webs 5 x 14 1/2 Dia. of thrust shaft under  
as fitted 4 3/4 collars 4 3/4 Dia. of screw 9'-3" Pitch of Screw 10'-0" No. of Blades 4 State whether moceable no Total surface 35 sq ft

No. of Feed pumps 2 Diameter of ditto 2 3/4 Stroke 1/4 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 2 3/4 Stroke 1/4 Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2 Sizes of Pumps 5 1/2 x 3 1/2 x 5 General No. and size of Suctions connected to both Bilge and Donkey pumps  
4 x 4 x 8 Ballast

In Engine Room one 2" B.R. Two 2" In Holds, &c. A.P. one 2" Hold two 2" No. tank three 2" No. tank 1/2"  
4 one 2"

No. of Bilge Injections one sizes 3" 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 Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible ✓

Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves & 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 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 Hold bilge suction How are they protected Strong wood casings

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 ✓ worked from ✓

## BOILERS, &c.—(Letter for record \_\_\_\_\_) Manufacturers of Steel

Total Heating Surface of Boilers 1666 sq ft Is Forced Draft fitted No No. and Description of Boilers \_\_\_\_\_

Working Pressure 180 Lbs sq in 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 \_\_\_\_\_ Are they fitted with easing gear \_\_\_\_\_

Smallest distance between boilers or uptakes and bunkers or woodwork \_\_\_\_\_ Mean dia. of boilers \_\_\_\_\_ Length 40 ft 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 \_\_\_\_\_ 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 bottom \_\_\_\_\_ Description of longitudinal joint \_\_\_\_\_ No. of strengthening rings \_\_\_\_\_

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 the 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 \_\_\_\_\_

## UPERHEATER. 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 \_\_\_\_\_ Is Easing Gear fitted \_\_\_\_\_



IS A DONKEY BOILER FITTED? *Yes* If so, is a report now forwarded? *Yes*  
 SPARE GEAR. State the articles supplied: *Two top end bolts & nuts. 2 main bearing bolts & nuts. 2 Bottom end bolts & nuts. Set of coupling bolts & nuts. Spare valves for air, circulating, feed & bilge pumps. 6 pump ring studs. Main and donkey check valves. Assorted bolts & nuts, & iron of various sizes.*

The foregoing is a correct description,

*Yaman & Paggelsen* Manufacturer.

Dates of Survey while building  
 During progress of work in shops -- 1919 OCT. 16. NOV. 19. 1920 MAR. 22. MAY 28. JUNE 22. JULY 12. AUG 26. SEP. 2. 8. 20.  
 During erection on board vessel --- 1920 OCT. 22. NOV. 2. 24. 26. DEC. 4. 14. 1921 JAN. 19. 25. 31. FEB. 2.  
 Total No. of visits 20. } 34  
 14 }  
 Is the approved plan of main boiler forwarded herewith   
 " " " donkey " " "   
 Dates of Examination of principal parts—Cylinders 2-12-20 Slides ~~25-12-20~~ Covers 2-12-20 Pistons 17-12-20 Rods 24-11-21  
 Connecting rods 24-11-21 Crank shaft 26-8-20 Thrust shaft 20-9-20 Tunnel shafts ✓ Screw shaft 20-9-20 Propeller 20-9-20  
 Stern tube 20-9-20 Steam pipes tested 4-5-21 Engine and boiler seatings 5-4-21 Engines holding down bolts 7-3-21  
 Completion of pumping arrangements 29-7-21 Boilers fixed 17-3-21 Engines tried under steam 29-7-21  
 Completion of fitting sea connections 15-11-20 Stern tube 15-11-20 Screw shaft and propeller 30-12-20  
 Main boiler safety valves adjusted 29-7-21 Thickness of adjusting washers P.  $\frac{4}{32}$  S.  $\frac{5}{76}$   
 Material of Crank shaft *Steel* Identification Mark on Do. *898 J.H.M.* Material of Thrust shaft *Steel* Identification Mark on Do. *898 J.H.*  
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *Steel* Identification Marks on Do. *898 J.H.*  
 Material of Steam Pipes *Copper* Test pressure *360 lbs*  
 Is an installation fitted for burning oil fuel  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.)  
*This engine has been built under special survey. The materials & workmanship are sound & good. It has been despatched to Lowestoft, where it will be fitted on board. The engines & boilers examined whilst being installed in the vessel, afterwards tried under working conditions & found satisfactory & is now eligible in our opinion for the record of +L.M.C. 8-21 in the Register Book.*

**It is submitted that this vessel is eligible for THE RECORD. +L.M.C. 7.21 C.L.**

*A.H.G.*  
 11/8/21 *ARR*

The amount of Entry Fee ...	£ 2 : 0 :	When applied for,
$\frac{2}{5}$ of Special Fitting on Board Donkey Boiler Fee ...	£ 9 : 12 :	8/2/1921
Donkey Boiler Fee ...	£ 4 : 16 :	8/8/21
Travelling Expenses (if any) ...	£ 5 : 5 :	19-3-21

*John H. Mackintosh*  
 Engineer Surveyor to Lloyd's Register of Shipping  
*A.E. Farmer & P. 1921*

Committee's Minute *FRI. 12 AUG. 1921*  
 Assigned *+L.M.C. 7.21 C.L.*  
 MACHINERY DEPT. WRITTEN

**Lloyd's Register Foundation**  
 TUE FEB 20 1923