

Rpt. 4.

REPORT ON MACHINERY

No. 60010

THUR. 30 MAR 1911

Received at London Office

Date of writing Report 19 When handed in at Local Office MAR 29 1911 Port of Newcastle on Tyne
No. in Survey held at Newcastle on Tyne Date, First Survey 18th July 1910 Last Survey 28th March 1911
Reg. Book. on the S. S. Augustus Loherczegno (Number of Visits)
Master Built at Walker By whom built Messrs Dobson & Co Tons Gross 4289 Net 2706
Engines made at Wallsend By whom made R. E. Marine Engineering Co Ltd when made 1911
Boilers made at 82 By whom made 82 when made 1911
Registered Horse Power Owners Hungarian Locomotive SS Co Ltd Port belonging to Fiume
Nom. Horse Power as per Section 28 342 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Inverted triple expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 24, 39, 66 Length of Stroke 45 Revs. per minute 70 Dia. of Screw shaft as per rule 13.79 Material of screw shaft Iron
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 Yes 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 Yes If two
liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 5' 6"
Dia. of Tunnel shaft as per rule 12.95 Dia. of Crank shaft journals as per rule 12.65 Dia. of Crank pin 13 Size of Crank webs 24 x 8 Dia. of thrust shaft under
collars 13 Dia. of screw 17.3 Pitch of Screw 17.3 No. of Blades 4 State whether moveable and Total surface 92 ft²
No. of Feed pumps 2 Dia. of ditto 6 Stroke 21 Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Dia. of ditto 4 Stroke 24 Can one be overhauled while the other is at work Yes
No. of Donkey Engines 3 Sizes of Pumps B-10 1/2 x 12 1/2 x 2! No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 4 of 3 1/2 In Holds, &c. 2 of 3 1/2 in each

No. of Bilge Injections 1 sizes 5" Connected to condenser, or to circulating pump pump 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 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 Yes How are they protected Yes
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 9.2.11 of Stern Tube 9.2.11 Screw shaft and Propeller 20.2.11
Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from top platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Messrs J. Spencer & Sons
Total Heating Surface of Boilers 5650 Is Forced Draft fitted no No. and Description of Boilers 3 S. E. Cylindrical Mull
Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 23.11.10 No. of Certificate 8057
Can each boiler be worked separately Yes Area of fire grate in each boiler 50 ft² No. and Description of Safety Valves to
each boiler 2 spring Area of each valve 7.07 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 open side Mean dia. of boilers 44.02 Length 10.6 Material of shell plates steel
Thickness 1 1/2 Range of tensile strength 28 3/4/32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams d. r. lap
long. seams l. r. d. r. s. Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 8 3/4 Lap of plates or width of butt straps 18 3/4
Per centages of strength of longitudinal joint rivets 92.8 plate 85.7 Working pressure of shell by rules 183.4 lbs Size of manhole in shell 16 x 12
Size of compensating ring flanged No. and Description of Furnaces in each boiler 3 Morrison Material steel Outside diameter 43
Length of plain part top Thickness of plates crown 17/32 Description of longitudinal joint weld No. of strengthening rings
Working pressure of furnace by the rules 190 lbs Combustion chamber plates: Material steel Thickness: Sides 23/32 Back 23/32 Top 23/32 Bottom 7/8
Pitch of stays to ditto: Sides 9 3/4 x 10 1/2 Back 9 3/4 x 10 1/2 Top 9 3/4 x 10 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180.5 lbs
Material of stays steel Diameter at smallest part 2.03 Area supported by each stay 96.4 Working pressure by rules 185 lbs End plates in steam space:
Material steel Thickness 1 3/4 Pitch of stays 24 x 19 1/2 How are stays secured d. n. w. Working pressure by rules 185 lbs Material of stays steel
Diameter at smallest part 2.29 Area supported by each stay 477 Working pressure by rules 184 lbs Material of Front plates at bottom steel
Thickness 1 Material of Lower back plate steel Thickness 1 5/8 Greatest pitch of stays 14 1/2 x 10 1/2 Working pressure of plate by rules 190 lbs
Diameter of tubes 3 1/4 Pitch of tubes 4 3/4 x 4 1/2 Material of tube plates steel Thickness: Front 1 Back 3/4 Mean pitch of stays 9 x 8 3/4
Pitch across wide water spaces 14 1/2 Working pressures by rules 183 lbs Girders to Chamber tops: Material steel Depth and
thickness of girder at centre 8 3/4 x 2 Length as per rule 32 Distance apart 10 1/2 Number and pitch of stays in each 2-9 3/4
Working pressure by rules 182 lbs 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

If not, state whether, and when, one will be sent?

Is a Report also sent on the Hull of the Ship?

Im. 1.10.-T.

VERTICAL DONKEY BOILER—Manufacturers of Steel

No.	Description	When made	Where fixed
Made at	By whom made		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted
If fitted with easing gear	If steam from main boilers can enter the donkey boiler	Dia. of donkey boiler	Length
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey

SPARE GEAR. State the articles supplied:— Propeller, Propeller shaft, $\frac{1}{2}$ " Crank shaft, 1 set top and brass, 1 set bottom and frames (for one engine) 2 Main and donkey feed check valves, 2 top end, 2 bottom end, 2 Main bearing & 1 set of coupling bolts, 1 set feed & bilge pump valves, 12 piston bolts, $\frac{1}{2}$ set Air pump Valves & 1 set Air pump valves, Bolts & nuts assorted & iron of sizes

The foregoing is a correct description,
NORTH EASTERN MARINE ENGINEERING Co., LTD. Manufacturer.

Dates of Survey while building	During progress of work in shops --	Secretary.	1910 Jul. 18. 20. 22. 25. 27. 29. Aug. 3. 5. 9. 11. 17. 18. 22. 25. 29. Sep. 1. 6. 8. 12. 13. 20.
	During erection on board vessel --		26. 30. Oct. 3. 5. 6. 7. 11. 13. 15. 20. 24. 26. 28. Nov. 1. 3. 4. 7. 9. 10. 14. 17. 23. 25. 27. 30. Dec. 1. 5. 12. 14. 19. 22. Jan. 11. 12. 20.
	Total No. of visits		25. 30. Feb. 1. 3. 7. 9. 10. 13. 15. 16. 20. 22. 23. 24. 27. 28. Mar. 3. 6. 9. 13. 16. 23. 28.

Dates of Examination of principal parts—Cylinders 10. 11. 10 Slides 20. 1. 11 Covers 10. 11. 10 Pistons 20. 1. 11 Rods 10. 11. 10
Connecting rods 10. 11. 10 Crank shaft 18. 10. 10 Thrust shaft 6. 10. 10 Tunnel shafts 7. 11. 10 Screw shaft 26. 1. 11 Propeller 4. 11. 10
Stern tube 1. 2. 11 Steam pipes tested 16. 2. 11 24. 2. 11 Engine and boiler seatings 9. 2. 11 Engines holding down bolts 22. 2. 11
Completion of pumping arrangements 6. 3. 11 Boilers fixed 28. 2. 11 Engines tried under steam 6. 3. 11
Main boiler safety valves adjusted 6. 3. 11 Thickness of adjusting washers P.P. $\frac{3}{4}$ " P.S. $\frac{5}{16}$ " C.P. $\frac{1}{2}$ " C.S. $\frac{7}{32}$ " S.P. $\frac{5}{16}$ " S.S. $\frac{3}{8}$ "
Material of Crank shaft ~~Steel~~ Identification Mark on Do. ~~R.W.C. 11. 10~~ Material of Thrust shaft ~~Steel~~ Identification Mark on Do. ~~R.W.C. 6. 10. 10~~
Material of Tunnel shafts ~~Steel~~ Identification Marks on Do. ~~R.W.C. 7. 11~~ Material of Screw shafts ~~Iron~~ Identification Marks on Do. ~~R.W.C. 25. 1. 11~~
Material of Steam Pipes ~~Copper~~ Test pressure 400 lbs

General Remarks (State quality of workmanship, opinions as to class, &c. The Machinery of this vessel has been constructed under special survey, the workmanship and materials used are both of good quality, the Engines have been tried under steam and worked satisfactorily

I beg to recommend that this vessel is eligible in my opinion to have the record ~~L.M.C. 3. 11~~ in the Register Book
It is submitted that this vessel is eligible for THE RECORD, + LMC 3. 11.

The amount of Entry Fee	£ 3 : 0 : 0	When applied for,	MAR 29 1911
Special	£ 37 : 2 : 0	When received,	30. 3. 11
Donkey Boiler Fee	£ :		
Travelling Expenses (if any)	£ :		

Committee's Minute

Assigned

FRI. 31 MAR 1911

+ LMC 3. 11

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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