

# REPORT ON MACHINERY.

No. 38194

Received at London Office

Date of writing Report 19 When handed in at Local Office 19 Port of THU. 3-OCT. 1918  
 No. in Survey held at Glasgow Date, First Survey Last Survey 28/9/ 1918  
 Reg. Book. on the Admiralty Trawler "John Croser" (Number of Votts 41) Tons } Gross }  
 Master Built at Glasgow By whom built Richardson & Milne (368) When built 1918 } Not }  
 Engines made at Glasgow By whom made Fairfield Ship Co. Ltd (613) when made 1918  
 Boilers made at Glasgow By whom made Neilson & Sons No. 3644 when made 1918  
 Registered Horse Power Owners H. M. Government Port belonging to -  
 Nom. Horse Power as per Section 28 45 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Tuple Expansion No. of Cylinders 3 No. of Cranks 3  
 Dia. of Cylinders 12" 20" 34" Length of Stroke 23" Revs. per minute 110 Dia. of Screw shaft as per rule 6.85 Material of screw shaft 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 fi If two  
 liners are fitted, is the shaft lapped or protected between the liners - Length of stern bush 30"  
 Dia. of Tunnel shaft as per rule 6.117 Dia. of Crank shaft journals as per rule 6.42 Dia. of Crank pin 6 3/4" Size of Crank webs 12 1/2 x 4 3/4" Dia. of thrust shaft under  
 collars 6 3/4" Dia. of screw 8.4" Pitch of Screw 11.6" No. of Blades 4" State whether moceable no Total surface 29 1/2"  
 No. of Feed pumps 1 Diameter of ditto 2 5/8" Stroke 12" Can one be overhauled while the other is at work yes  
 No. of Bilge pumps 1 Diameter of ditto 2 5/8" Stroke 12" Can one be overhauled while the other is at work yes  
 No. of Donkey Engines 1 Sizes of Pumps 5 1/4" x 3 1/2" x 5" No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room one 2" Engine Room aft In Holds, &c. one 2" Slushwell  
 No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump B. P. 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 yes  
 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 & below  
 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 Slushwell suction How are they protected Wood & Steel bulkheads  
 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 8-5-18 of Stern Tube 8-5-18 Screw shaft and Propeller 8-5-18  
 Is the Screw Shaft Tunnel watertight no Is it fitted with a watertight door - worked from -

BOILERS, &c.—(Letter for record 8) Manufacturers of Steel  
 Total Heating Surface of Boilers 1344 sq ft Is Forced Draft fitted no No. and Description of Boilers one Single glazed marine  
 Working Pressure 180 Tested by hydraulic pressure to 360 lbs Date of test 28-3-18 No. of Certificate 14158  
 Can each boiler be worked separately - Area of fire grate in each boiler - No. and Description of Safety Valves to  
 each boiler 1 Pair Spring loaded Area of each valve 5.93 sq in 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 10" 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 - Working pressure of shell by rules - Size of manhole in shell  
 Size of compensating ring - No. and Description of Furnaces in each boiler Report Material - Outside diameter  
 Length of plain part - Thickness of plates - 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 - Diameter 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  
 Diameter 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 - 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 -

IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? —  
 SPARE GEAR. State the articles supplied:— 2 Connecting Rod bolts nuts for top ends  
bolts for bottom end. Set of coupling bolts & main bearing  
bolts. Set of Feed. Relief Pump valves & a quantity of assorted  
bolts & nuts of various sizes.

The foregoing is a correct description,  
 AND ENGINEERING CO., LIMITED.  
Alain Coghlan MANAGER Manufacturer.

Dates of Survey while building  
 During progress of work in shops: 1917 Apr 24 May 1. 10. 6. 22. June 1. 13. 21. July 11. 30. Aug 6. 9. 21. Sept 3. 11. 21. Oct 2. 8. 22. 24. Nov 4. 20.  
 During erection on board vessel: 1918 Apr 30 May 4. 8. June 5. 6. 7. 11. 18. 22. July 4. 23. 29. Aug 21. Sept 2. 4. 9. 15. 17. 28.  
 Total No. of visits H1 Is the approved plan of main boiler forwarded herewith yes  
 " " " donkey " " " "

Dates of Examination of principal parts—Cylinders 13. 6. 17 Slides 21. 6. 17 Covers 21. 6. 17 Pistons 11. 9. 17 Rods 21. 6. 17  
 Connecting rods 3. 9. 17 Crank shaft 30. 7. 17 Thrust shaft 30. 7. 17 Tunnel shafts 30. 4. 18 Screw shaft 7. 11. 17 Propeller 8. 5. 18  
 Stern tube 30. 4. 18 Steam pipes tested 18. 6. 18 Engine and boiler seatings 5. 6. 18 Engines holding down bolts 4. 4. 18  
 Completion of pumping arrangements 29. 4. 18 Boilers fixed 29. 4. 18 Engines tried under steam 14. 28. 9.  
 Main boiler safety valves adjusted 15. 9. 18 Thickness of adjusting washers 1/4" - 5/16"

Material of Crank shaft \$ Identification Mark on Do. LLOYD'S W.G.M. 563 Material of Thrust shaft \$ Identification Mark on Do. LLOYD'S W.G.M. 563  
 Material of Tunnel shafts \$ Identification Marks on Do. 563 Material of Screw shafts \$ Identification Marks on Do. 563  
 Material of Steam Pipes 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 yes If so, state name of vessel H.M. Steamer Thomas Foley Glasgow RPI No 349

General Remarks (State quality of workmanship, opinions as to class, &c.)  
These engines have been built under special survey & in accordance with the specifications & the workmanship & material are of good quality.  
The machinery would be eligible for the record of LMC 9-18 if fitted in a closed vessel.

The amount of Entry Fee £ 12 : 5 : 0 When applied for, 2/10/18  
 Donkey Boiler Fee £ 6 : 3 : 0 When received, 2/10/18  
 Travelling Expenses (if any) £ —  
 Committee's Minute GLASGOW 2-06  
 Assigned No action  
 W. Gordon Macleod & Co. A. Ferguson  
 Engineer Surveyors to Lloyd's Register of British & Foreign Shipping  
 As this vessel is not intended for classification it is submitted for action is unnecessary.  
 4/10/18

Certificate (if required) to be sent to  
 The Surveyors are requested to write on or below the space for Committee's Minute.

