

Is a Report on Main Boilers now forwarded? *yes.*

Is a Donkey Boiler fitted? *yes. or deck*

If so, is a report now forwarded? *yes*

Plans. Are approved plans forwarded herewith for Shafting *No* Main Boilers *Yes.* Auxiliary Boilers Donkey Boilers *Yes.*

Spare Gear. State the articles supplied: *2 bolts & nuts for each turbine or gear case bearing, one set of bolts & nuts for main shaft, 5% of bolts, studs & nuts for each gear case & turbine joint, 2 manometers for oil circulating system, 4 diaphragm gland rings, 1 sealing gland box, one set of pads for turbine thrust blocks, 2 bearing bushes for turbine rotors, two spur & internal gear wheels respectively, 3 bearing bushes for H.S. pinion shaft and 3 for L.S. pinion shaft, one H.S. pinion with flexible coupling, one set of pads for main shaft thrust block, one spare tail shaft, 2 C Iron prop. blades, 24 condenser tubes, one impeller & spindle for motor driven feed pump, one impeller spindle for motor driven circulating pump, half set of valves for motor driven feed pump, half set of valves for general service pump, one set of valves for lubricating oil pump & one bucket for same, one escape valve for each size fitted, assorted iron plates, nuts & bolts and general spares for oil fuel installation etc.*

The foregoing is a correct description,

SWAN, HUNTER & WILKINS RICHARDSON, LTD. Manufacturer.

G. F. Tweedy

Dates of Survey while building: During progress of work in shops -- *1922 1923* Dec. 13. Jan. 8. 15. Feb. 2. 12. 16. 23. Mar. 5. 9. 13. 21. 22. 26. Apr. 10. 16. 19. 24. 25. 27. 30. May 1. 7. 11. 14. 16. 17. 18. 23. 25. 28. 29. 30. 31. June 4. During erection on board vessel --- 5. 6. 7. 11. 13. 15. 20. July 4. 10. 12. 17. 20. 24. 25. 27. 31. Aug. 2. 3. 7. 16. 21. 23. 24. 29. 30. 31. Sep. 11. 17. 18. 19. 20. 27. 28. Oct. 2. 5. 8. 11. Total No. of visits *71.*

HP turbine tested under test 80 lbs. 11. 6. 23. LP 30 lbs. 13. 6. 23. *Manchester Report*
Dates of Examination of principal parts - Casings *12/7/23* Rotors *no 5136* Blading *do 4. 7. 23* Gearing *do 13. 6. 23*
Wheel shaft *do July 23* Thrust shaft *16/2/23* Tunnel shafts *16/2/23* Screw shaft *16/2/23* Propeller *20/6. 4/7/23*
Stern tube *25/6/23* Engine and boiler seatings *24/7, 17/9/23* Engines holding down bolts *24/5. 31/8/23*
Completion of pumping arrangements *2/10/23* Boilers fired *24/7, 31/8/23* Shop Steam tests *12. 7. 23* Engines tried under steam *2/10/23*
Main boiler safety valves adjusted *2/10 + 27/9/23* Thickness of adjusting washers. *3/8", 12/32", 11/32" - 3/8" 3/8" - 12/32" 11/16" - 11/16"*
Material and tensile strength of Rotor shaft *Manchester rpt no 5136* Identification Mark on Do. *do*
Material and tensile strength of Flexible Pinion Shaft *do* Identification Mark on Do. *do*
Material and tensile strength of Pinion shaft *do* Identification Mark on Do. *do*
Material and tensile strength of 1st Reduction Wheel Shaft *do* Identification Mark on Do. *do*
Material of Wheel shaft *Mech report no 5136* Identification Mark on Do. *do* Material of Thrust shaft *Steel* Identification Mark on Do. *4160 D. MR 298 16/2/23*
Material of Tunnel shafts *Steel* Identification Marks on Do. *4160 MR 298 16/2/23* Material of Screw shafts *do* Identification Marks on Do. *do*
Material of Steam Pipes *Steel & Copper* Test pressure *600 & 400 lbs* Date of test *17/7/23, 19/9/23*
Is an installation fitted for burning oil fuel *yes* Is the flash point of the oil to be used over 150°F. *yes*
Have the requirements of the Rules for carrying and burning oil fuel been complied with *yes*

Is this machinery a duplicate of a previous case *yes* If so, state name of vessel: *SISTER VESSEL 451134. 1130. 1126 SS British Fusilier no 76397A*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The boilers & machinery built under special survey, the materials & workmanship found good & efficient. The turbines & boilers fitted up on board satisfactorily, the machinery tested under steam (at moorings) and found satisfactory. The auxiliary machinery tested and found in order, (for particulars of electric installation please see report to follow) Note. The turbine casings, condensers, feed heaters, steamers, pipes, valves etc tested under hydraulic pressures as required with satisfactory results.*

In my opinion this vessel is now eligible for the notification of L.M.C 10-2 to be made in the register book.

Boiler etc invoices, forgings & castings reports. (etc now forwarded) also Manchester rpt no 5136. Please see your letter of the 5th February 1923 regarding the omission of the builder's name from certificate. *L. G. Shallcross.*

The amount of Entry Fee ... £ *6 : 0* When applied for. Special Balance £ *89 : 2* 9/10/23. Donkey Boiler Fee ... £ *✓* When received. Travelling Expenses (if any) £ *✓* 11/10/23.

Committee's Minute *TUE OCT. 16 1923*

Assigned *+ L. G. 10. 23 F. D. O. G. D. R.*

Listed for oil fuel 10. 23 F.P. above 150°F.

Newcastle (in duplicate)



CERTIFICATE WRITTEN in duplicate