



Boilers & Superheater  
by Swan Hunter & Wigham

SUPERHEATER. Type Schmidt 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 yes  
Diameter of Safety Valve 2 1/2" Pressure to which each is adjusted 225 Is Easing Gear fitted yes

IS A DONKEY BOILER FITTED? yes If so, is a report now forwarded? yes

SPARE GEAR. State the articles supplied:— one set of coupling bolts and nuts, one set of feed pump valves, one set of valves for general service donkey, one set of check valves, iron and bolts of various sizes, one screw shaft and one propeller. Superheater element

The foregoing is a correct description,  
Swan Hunter & Wigham Manufacturer.

Visits to the Bank Electrical Engineering Co., Loughborough (1916) Oct 26 (1917) Mar 13, 23 May 1, 11, July 4, Sept. 30 (1918) Jan 26 Mar 11.  
During progress of work in shops - - Visits to Swan Hunter & Wigham: (1914) Mar 13, June 9, 11, July 14, Aug 14, 21, Sept. 22, Oct. 20, Nov. 17, 29, Dec. 6. 18.  
During erection on board vessel - - Ed. visits 1917 Sep 24. 1918 Mar 20 22 25. Apr 5 19 23 26 30. May 1 6 7 8 9 15 16 29 30. June 3 4 21 (2 ap of pl)  
Total No. of visits 27 1918 Jul 4 9 15 — (24+23) Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Casings 26-10-16 Rotors 13-3-17 Blading 21-8-17 Gearing 18-12-1917  
Rotor shaft 18-12-17 Thrust shaft 18-12-17 Tunnel shafts 31/7/17 to 17/8/17 Screw shaft 17/8/17 to 3/9/17 Propeller 17/8/17 to 4/9/17  
Stern tube 31/7/17 to 1/8/17 Steam pipes tested iron & copper Engine and boiler seatings 24-9-17 Engines holding down bolts 5-4-18  
Completion of pumping arrangements 9-5-18 Boilers fixed 20-3-18 Engines tried under steam A-6-18  
Main boiler safety valves adjusted 26-4-18 Thickness of adjusting washers Pol. boiler both 3/8". Stack br. P 5/8". S 1 1/2"  
Material and tensile strength of Rotor shaft \_\_\_\_\_ Identification Mark on Do. \_\_\_\_\_  
Material and tensile strength of Pinion shaft \_\_\_\_\_ Identification Mark on Do. \_\_\_\_\_  
Material of Wheel shaft \_\_\_\_\_ Identification Mark on Do. \_\_\_\_\_ Material of Thrust shaft \_\_\_\_\_ Identification Mark on Do. \_\_\_\_\_  
Material of Tunnel shafts iron Identification Marks on Do. (5938) 29/10/17 Material of Screw shafts steel Identification Marks on Do. (5938) 3/9/17  
Material of Steam Pipes Sp. welded iron & cold drawn copper 11.3 1/2 Test pressure iron 650 lb copper 550 lb  
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 a duplicate of a previous case NO If so, state name of vessel \_\_\_\_\_

General Remarks (State quality of workmanship, opinions as to class, &c.) Two Turbines, each turbine fitted with two generating motors (one on each end) and driving motors fitted on reduce gear to propeller shaft and condensers (2) constructed under special supervision. Material tested as required & workmanship good. Turbine casings tested hydraulic pressure to 30 lbs, stop valve chests (cast steel) to 400 lbs, condensers (steel riveted) to 40 lbs per sq inch & all found tight & sound. Turbines, Generators & the whole plant coupled up with the driving motors & reducing gear in shop & work satisfactory & smoothly & with absence of vibration. Turbines & Generators run 3600 Revs. Propeller shaft 76 & 77 Revs. Volts 655 Amp 560. The work of this vessel has been most successful. Special survey, & means the vessel ship in our opinion to have record of L.M.C. 7. 18

The amount of Entry Fee ... £ 2 : 0 : 0 When applied for, 3/4/18  
Special Balanced on 11. 11. 6 of Fee 11. 11. 6  
Donkey Boiler Fee ... £ 2 : 2 : 0 When received, at London  
Attendance Sunday Fee ... £ 23 : 4 : 5  
Travelling Expenses (if any) \_\_\_\_\_

Committee's Minute FRI 2-AUG. 1918 FRI 2-AUG. 1918  
Assigned + L. Mc of 18

Certificate (if required) to be sent to \_\_\_\_\_  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

