

SUPERHEATER. Type *Marine and locomotive superheaters* Date of Approval of Plan *21-3-22* Tested by Hydraulic Pressure to *1000 lb*
Date of Test *25/4/22 Manchester* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

IS A DONKEY BOILER FITTED? *Yes* If so, is a report now forwarded? *Boiler still under construction.*

SPARE GEAR. State the articles supplied:— *12 studs and nuts for rotor bearings (4 each size) - 6 studs & nuts for gear case bearings (2 each size) - 10 bolts for sleeve couplings - 6 bolts for HP MP coupling - 120 total N° gear case and turbine casing joints - 2 thermometers for oil system - 1 pair of bearings for each: - main gear wheel, intermediate gear wheel, pinions HP, MP and LP rotors - 2 sets carbon packing & springs HP gland 1 set for MP glands - fin packing for LP glands - 1 set pads & segments for each Michell block on HMP & LP turbines - 5 engine safety valve springs (main engine).*



The foregoing is a correct description,
27 April 22
L'Ingénieur de l'Atelier de Turbines
Guindault

Manufacturer.
Le Directeur

Dates of Survey while building
During progress of work in shops: *1921. May. 9, 17, 27. June. 3, 15, 16, 18, 23. July. 4, 15, 18. Aug. 1, 5, 11, 13, 24, 26, 30. Sept. 6, 12, 14, 20, 23, 29. Oct. 6, 10, 13, 20, 26, 28. Nov. 3, 9, 14, 17, 23, 25, 29, 30. Dec. 3, 7, 14, 22. 1922 Jan. 3, 6, 10, 24 Feb. 2, 10, 22, 28. March 1, 10, 15. Apr. 28. May 5*
During erection on board vessel: ---
Total No. of visits *Eng. in shop. 36. Boiler in shop. 38.* Is the approved plan of main boiler forwarded herewith *No.*

Dates of Examination of principal parts—Casings *24-8-21* Rotors *11-8-21* Blading *13-10-21* Gearing *3-12-21*
Rotor shaft *18-6-21* Thrust shaft Tunnel shafts Screw shaft Propeller
Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts
Completion of pumping arrangements Boilers fixed Engines tried under steam
Main boiler safety valves adjusted Thickness of adjusting washers
Material and tensile strength of Rotor shafts *Forged Steel 42/50 kg. cm²* Identification Mark on Do. *149*
Material and tensile strength of Pinion shafts *Nickel Steel 60 kg. cm² x 12%* Identification Mark on Do. *149*
Material of Wheel shaft *42/44* Identification Mark on Do. *149* Material of Thrust shaft Identification Mark on Do.
Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.
Material of Steam Pipes Test pressure

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 a duplicate of a previous case *No.* If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) *Workmanship good. These three main boilers and main turbines with double reduction gearing, to coupling aft of gear case and without the Condenser, have been specially surveyed during construction. They have been built in accordance with the approved plan and otherwise in accordance with the Rules. and they will be eligible in my opinion for the record of + LMC. in the Register Book when fitted onboard. These turbines and gearing have undergone steaming trials in the shop, after which they were opened up, examined and found in good order. Boiler material has been tested as per Naml's letter addressed to the Sec London & dated 25/3/22*

The amount of Entry Fee ... *£1486*
Eng. 3/4 fee. *£550* already charged
Special by this office ... *£2036*
Boiler 3/4 fee. ...
Donkey Boiler Fee ...
Travelling Expenses (if any) *£1980*

When applied for, *18 May 22*
When received, *29 May 22*

Geo. A. Paing
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE. 4 MAR. 1923*
Assigned

