

MON. SEP. 27 1920

W 656 - 0068

SUPERHEATER. Type *Horizontal 380 sq ft heating surface* Date of Approval of Plan *1920* Tested by Hydraulic Pressure to *400 lbs*

Date of Test *22nd March 1920* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler *yes*
Diameter of Safety Valve *1"* Pressure to which each is adjusted *210 lb* Is Easing Gear fitted *no*

IS A DONKEY BOILER FITTED? *no* If so, is a report now forwarded? *no*

SPARE GEAR. State the articles supplied: *Two slides & nuts for each pair of rotor bearing. First & second pinion frame & main gear wheel, one set of main & turbine coupling bolts, 5% of gear & turbine casing bolts, two thermometers for oil circulating system, complete set of bearing bushes for turbine rotor. First & second pinion & gear shaft complete, half set of gland segments & springs for rotor shaft. Set of pads for one face of timing chest for turbine, set of liners for ditto. Set of valves & springs for pumps as follows, Bilge Ballast Feed & Lubricating oil pump, Bucket & rod for ditto. One relief valve spring for main & aux. Condenser & Boiler safety valve springs. Quantity of assorted studs nuts & bolts. Bars & plates of iron. Ten sets of hand hole fittings. Three 4 tube nipples for down takes seven 4" ditto for mud drums. Ten 4" Boiler tubes. Two fusible plugs. Two Aluminums & springs. Ten spring plates & gaskets for same, one 4" expander with three straight & taper rolls & mandrels. Taps for 3/4" & 1/2" taper studs.*

The foregoing is a correct description,

W. B. Flanagan Manufacturer.
Eng. Munn. H. W. E. M. C.

Dates of Survey while building
During progress of work in shops -- *Feb 24-26 March 3-10-14-17-23-25-28-30 May 8-20-22-28 June 3-9 = 24 V 15172*
During erection on board vessel --- *1920 Mar 22 April 16-20-29 May 4-7 June 15-18 July 10-12-22 Aug 2-5-10-11*
Total No. of visits *19*

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Casings ☒ Rotors ☒ Blading ☒ Gearing ☒
Rotor shaft ☒ Thrust shaft ☒ Tunnel shafts *15th June 1920* Screw shaft *6th May 1920* Propeller *6th May 1920*
Stern tube *4th May 1920* Steam pipes tested *29th April 1920* Engine and boiler seatings *22nd March 1920* Engines holding down bolts *7th Aug. 1920*
Completion of pumping arrangements *25th July 1920* Boilers fixed *28th Feb. 1920* Engines tried under steam *7th Aug. 1920*
Main boiler safety valves adjusted *11th Aug. 1920* Thickness of adjusting washers Port Boiler *29/32 27/32 Starboard Boiler 1 1/64 20/32*
Material and tensile strength of Rotor shaft *Cast Steel 6000 lbs min* Identification Mark on Do. *Y 179.*
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 Identification Marks on Do. Material of Screw shafts Identification Marks on Do.
Material of Steam Pipes *Steel* Test pressure *600 lbs*
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 Section 49 of the Rules been complied with *yes*

Is this machinery a duplicate of a previous case *yes* If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) *The Turbine has been built under special survey, in accordance with the approved plans. The workmanship is good. The materials have been tested by the Surveyors to the American Bureau of Shipping in accordance with New York letter dated 23/11/17. The machinery has been shipped to Newark, N.J. to be fitted on board the vessel.*

*The tail shaft fitted with a continuous liner. The machinery fitted aboard the S S Suduroo under special survey in a satisfactory manner. In my opinion is worthy of the Class *L.M.C* 8. 20*
Fitted for oil fuel 7. 20 F.P. Above 150° F

The amount of Entry Fee *£ 250.00*
Special *£ 250.00*
Donkey Boiler Fee *£*
Travelling Expenses (if any) *£*
credit P. B. & Co. £ 41.00

When applied for,

16/9/1920

When received,

11/10/1920

L. Noworthy
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

New York SEP 14 1920

Assigned

+ Lmb 8.20 Subject

MACHINEBET CERT.
WRITTEN 27.9.20



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Foundation