
Continued:-

On account of the appearance of the tubes, which showed evidence of having been subjected to intense heat, and as a result of a partial water test, sample tubes were removed for analysis and report by the Society's Special Surveyor for Metals at Middlesbrough.

In consequence of this report (~~not attached~~) it was recommended that the boiler be retubed completely.

The remaining portions of the boiler, viz, headers, drum, superheater, safety valves, mountings and doors were examined and considered satisfactory.

On completion of retubing, the boiler was tested hydraulically to 325 lbs/sq. in. and found satisfactory.

The starboard boiler headers, drum, superheater were examined internally and externally together with safety valves, mountings, doors and placed in good condition.

Both automatic feed regulators renewed after hydraulic test to 625 lbs/sq. in. before fitting.

Both boilers were examined under steam and the safety valves adjusted to:- main 250 lbs/sq. in., superheater 230 lbs/sq. in. and all found satisfactory.

In conjunction with the foregoing examination and repairs the following machinery parts were examined for classification with this Society:-

Cylinders, pistons and rods, slide valves, steam chests, crank, thrust and intermediate shafting; main and auxiliary condensers, main and auxiliary pumps, pumping arrangements, steering gear, windlass and evaporator opened out; working parts examined and placed in good order. Main and auxiliary steam pipes examined under steam and found satisfactory. The evaporator safety valve being adjusted to 25 lbs/sq. in. under steam.

The main and auxiliary machinery were examined under working conditions and found satisfactory.

Wear and Tear Repairs:- M.P. slide valve (Andrews and Cameron type) rebushed on spindle for realignment; spring on back of valve readjusted. Outboard feed pump piston and bucket rods skimmed and rebushed, suction and delivery valves ground in. Ballast, general service and evaporator pump bucket rings (3 pumps) renewed. Auxiliary condenser air and circulating pump (horizontal combined type) rods skimmed and rebushed, air pump bucket rings renewed, circulating water inlet valves and seals overhauled. Generator engines (3) valve cages bored out and valves renewed, inboard generator crank shaft after journal lapped and bearing remounted. Fan engine forward crank journal lapped and bearing remounted. Windlass piston rings renewed. Three superheat elements renewed in S. boiler.

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