



## S.S. WAVE MONARCH.

M.S. & pumping arrangements. The two main & auxiliary fan engines & the two steam generator engines in their entirety, also the forward pump room oil fuel transfer pump & bilge pump. All steam pipes 3" bore & over were examined & found satisfactory.

REPAIRS:- MAIN ENGINE:- H.P. TURBINE:- This unit was removed ashore to Messrs Yarrow & Co Ltd.

The bottom half casing found fractured in four places at forward end, the fractures were cut out & electrically welded. The casing was afterwards crack detected & found satisfactory.

All the fourth stage & the first & second rows of the fifth stage in rotor, top & bottom half casings rebladed & the rotor balanced.

L.P. TURBINE:- The L.P. ahead & astern rotor removed ashore to Messrs Yarrow & Co Ltd. The first row of the astern blading removed & rotor balanced.

All resilient chocks were removed from the H.P. & L.P. turbines & new solid chocks fitted.

The H.P. & L.P. turbines realigned, alignment checked & found satisfactory.

On the Owner's initiative the after intermediate shafting Mitchell bearing was replaced by a plunger <sup>block</sup> type bearing.

AUXILIARY MACHINERY:- Ballast Pump:- Forward bucket rod machined & new neck ring fitted.

Port & Starboard Main Fan Engines:- Piston rods & valve spindles machined & new neck rings fitted.

Port & Starboard Auxiliary Fan Engines:- Piston valves renewed, piston rods machined & new neck rings fitted.

Main Circulating Pump:- Impeller shaft found badly worn in way of packing, shaft now renewed, steam engine piston rod machined & new neck ring fitted.

Bilge Pump:- new liners fitted to water end.

Evaporator:- On Owner's initiative a new upper shell fitted to evaporator, tested to 50 lbs/sq. & found in order.

Lubricating Oil Pumps:- Cylinders bored out & new pistons fitted.

Auxiliary Circulating Pump:- Complete new water end fitted.

General Service Pump:- Complete new water end fitted.

Auxiliary Condenser:- All tubes removed, cleaned & renewed as required, condenser tested & found satisfactory.

Starboard Steam Generator Engine:- New piston fitted, piston rod machined & new neck ring fitted.

Port Steam Generator Engine:- New piston fitted, piston rod machined & new neck ring fitted. Column between crankcase & cylinder block found fractured now renewed.

M.B.S. The port & starboard main boilers examined internally & externally with mountings, fastenings, safety valves & superheater elements & found or placed in good condition.

The safety valves of both boilers adjusted under steam.

REPAIRS:- Safety valve seats & hits machined & other minor repairs effected to mountings.

At this time the steam drums of both boilers were drilled & forged steel connections for "Igama" water indicator fitted. The connections were tested to 1050 lbs/sq. The connections were screwed through the steam drums with a vanishing thread & beaded over on the inside. These connections were blanked off until the other fittings for the "Igama" water indicator are delivered to the vessel.

D.B.S. The port & starboard donkey boilers examined internally & externally with mountings, fastenings & safety valves & found or placed in good condition.

The safety valves of both boilers adjusted under steam.

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## D.B.S. REPAIRS:-

PORT BOILER:- Bottom double shut off cock & auxiliary feed check valve chest rejointed to shell & other minor repairs effected to mountings

STARBOARD BOILER:- Bottom double shut off cock, steam & auxiliary feed check valve chests rejointed to shell & other minor repairs effected to mountings.

WINDLASS:- The windlass examined in its entirety & found or placed in good condition

REPAIRS:- New bottom end brasses fitted

STEERING GEAR:- The steering gear steam engine examined in its entirety & found or placed in good condition

REPAIRS:- Crankshaft machined & new chest collars fitted, new main bearing & bottom end brasses fitted.

On completion of repairs the main, auxiliary machinery & boilers were tried under working conditions & found satisfactory

J.B.G.

ELECTRICAL EQUIPMENT:- A Special Survey of the electrical equipment carried out. The installation examined and tested and the following repairs effected:-  
Generators, motors, switchboard and control gear overhauled.

Engine and Boiler Rooms partly rewired

Suez Canal Projector cable permanently installed

All fuse boxes and fittings overhauled.

Numerous minor repairs to circuits.

On completion of repairs, all circuits examined, I.R. tests made and the installation seen under working conditions. All found satisfactory.

B. Claffin.