

# Achimota Brewery, Diageo – Ghana Equipment – Seitz Orion 100

**Reason for visit:** Following audits and work carried out at other Diageo sites, the brewery in Ghana contacted Puresep to carry out a full quality audit to assess the current running condition of the filter and make recommendations on optimising production.

### Issues Highlighted

- Missing and worn shoes thus affecting the alignment of the pack – if left this would cause a decrease in productivity.
- The seals were showing sign of wear which would develop into leaks and large product loss.
- The pressure gauge assemblies have lost the indicator needles resulting in inaccurate pressure management .
- Issues with clutch assembly and locking motor – although a hydraulic strip down would be required to inspect. This resulted in the hydraulic seals being overworked – if these seals were to fail it would lead to massive product losses
- Electrical issues due to modification of control circuit – incorrect switches and no cable markers, no electrical drawings onsite or keys to unlock the old style pressure switches that were set at the wrong switching points for safe operation of the filter.

### The Solution

- Following our recommendations the following work was carried out
- We supplied 13 pairs of reconditioned plates and frames. This gave the brewery the capability to increase the square meterage and so the filter can run faster for longer thus increasing volumes,



- throughput and flow rate.
- New seals, shoes and handles for all the elements were supplied thus reducing powder or product leakage or break through
- Electrical, mechanical and process overhauls – leaving all equipment running at its optimum capability
- Hydraulic overhaul -all seals were changed and the electrical control panel was replaced
- The old pressure switches were replaced for digital set point pressure switches

### The Outcome:

A fully working, optimised sheet filter and production process, insuring against unplanned downtime or costly ongoing repairs and issues. The cost of undertaking the work was minimal in comparison to the cost of downtime and potential brewery closure.



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