





3/5 "EMPIRE EXPLORER" ex "INANDA"

manhole doors and placed in order. All boilers later examined under steam and safety valves adjusted to 220 lbs/p.s.i.

On completion of repairs the main and auxiliary machinery examined under working conditions and found satisfactory.

Damage Repairs: Main engine cylinders and steam chests tested hydraulically and found satisfactory. All piston rods and slide valve spindles found pitted by water, skimmed up and rebushed. Crank, thrust and intermediate shafting lifted, bearings cleaned out and readjusted; spare screw shaft journal pitted, skimmed up. Main and auxiliary condensers tested and found satisfactory. Feed pump suction valve chest flange broken off, valve chest renewed; "T" piece in feed water line found defective renewed. Feed water heater supports and branch piece broken off shell, new cast iron supports and branch piece tap bolted to shell. Holding down bolts hardened up and renewed where broken. Various castings in main and auxiliary steam and water lines tested hydraulically and found satisfactory.

The Owners desire that the foregoing examination on account of damage be accepted as the L.M.C. due 7.41.

Wear and Tear Repairs: Toward and after (Weir) feed pump bucket rods found undersize and renewed. Ballast pump piston rod found worn and renewed. Main and auxiliary circulating pump impeller shafts found worn in way of bearings and renewed. General service pump piston rods found worn and renewed, glands rebushed, water end liners found worn, skimmed out and new buckets fitted. Feed water heater tubes found porous in way of internal manifold, tubes cropped and reexpanded; external manifold found patched on tube plate, patch removed, fracture cut out and oxy. acetylene welded, tested hydraulically and found satisfactory, on reassembling the heater shell was tested hydraulically with satisfactory results.

When the main steam pipes were being tested hydraulically in place and the pressure about 350 lbs/p.s.i. the back end plate of the auxiliary boiler in way of the port combustion chamber failed in the knuckle and opened about 2", the port c.c. back plate set in about 3".

Repair: Back end plate cropped horizontally and vertically (5 feet by 6 feet from seam). A new plate being welded in internally and externally at butts. The c.c. back plate cropped and lower portion renewed together with 34 back stays and 1 lower main stay. On completion of repairs the boiler was again hydraulically tested to 220 lbs/p.s.i. with satisfactory results. (See attached blue print).

ELECTRICAL INSTALLATION. The electrical installation has been completely renewed, or overhauled, was examined and tested on completion and found to be satisfactory. A separate Irish Entry Electric Light report (attached) has accordingly been completed.