

valves, overboard discharge valve and suction and discharge pipes fitted.

Main engine exhaust pipes renewed and fitted with change over valves to plant & condenser. a new main circulating pump and engine fitted. (Drysdaal Thermall).

a stand by lubricating oil pump (Weiss) together with its connections for lubricating generator plant fitted on tween deck flat.

Various feed pipes & bidge pipes have been renewed to fit in with the new arrangement & tested under hydraulic pressure to rule requirements.

The main engines were partly dismantled for access and refitted in good order.

The electric cables, connections & fittings were fitted in the vessel under survey and to the approved plans.

The main and auxiliary machinery was tried out at a sea trial with satisfactory results. The main engines were manoeuvred with the turbo-generator working and the power on the propelling motor and the various cut outs worked satisfactorily.

The maximum IHP developed was, reciprocating engine 4400

turbine

1560

5960 at 96 rev.

HP cut off $35\frac{3}{4}$ "

The maximum HP cut off is $36\frac{1}{8}$ " but as the vessel was light the engine could not be opened out to the maximum without increasing the revolutions beyond what was considered advisable.

after the turbo-generator set had been running for about 2 hours, a satisfactory test was carried out to rupture the fuses connected to the field and alarm circuits. 4 heater elements of 3 kilowatts were connected in parallel with the field winding. These were switched on with the turbo-generator set in operation & the fuses of 4 strands of 33 SWG copper wire were blown. The fuses were replaced and the same test carried out 3 times within 10 minutes. A megger test was afterwards made of the whole system with satisfactory results.

All main boilers examined internally and externally, together with their mountings, safety valves, doors and fastenings.

The starboard furnace of the port main boiler was found to be badly distorted and was jacked to a fair shape and is now considered efficient.

Main boiler safety valves adjusted under steam as stated.