

Water tube Donkey boiler examined externally and internally with all doors, fastenings and mountings inclusive of waste heat elements and found or placed in satisfactory condition. The boiler was tested to 150 lbs. per sq. in. by hydraulic pressure and found sound and tight. Boilers examined under working conditions, the safety valves adjusted to 100 lbs. per sq. in., the oil fuel burning arrangements examined and found satisfactory. Report 5 C herewith.

The vessel placed in dry dock. Propeller and all outside fastenings of the ship injection and discharge valves examined. All injection and discharge valves opened up, examined and replaced in good order.

Tail shaft with continuous liner drawn in, examined and found in satisfactory condition. The stern gear was replaced, examined and found in order.

Electric driven windlass opened up, examined throughout and replaced in good order.

On completion of work the main and auxiliary machinery were tested under full working conditions and found satisfactory.

Details of the main propelling machinery are as per accompanying report 4 b.

The auxiliary Diesel generating engines are as follows:-

3 - Cooper Bessemer 5 cylinder 12" dia. x 15" stroke 400 B.H.P. @ 450 R.P.M.

4 cycle solid injection Diesel engines direct coupled to 3 - 275 K.W. 120/240

volt direct current generators, General Electric.

These generating sets are situated starboard side engine room floor level and are disposed inboard and outboard forward, aft.

The engine room auxiliary machinery is as follows:-

STARTING AIR RECEIVERS

4 - 42" dia. starting air receivers situated vertically port for'd engine room Outboard, outboard centre, inboard centre and inboard. 1 - 24" air receiver situated starboard side engine room.

3 - MAIN ENGINE FRESH WATER CIRCULATING PUMPS

Electric centrifugal situated starboard side engine room, forward, centre and aft.

3 - MAIN AIR COMPRESSORS

Electric driven 2 stage. Situated port forward engine room, lower platform, inboard and outboard.

3 - MAIN SALT WATER CIRCULATING WATER PUMPS

Electric driven centrifugal situated starboard side engine room, forward, centre and aft.

OIL FUEL TRANSFER PUMP

Electric driven gear type situated starboard side engine room.

3 - MAIN LUBRICATING OIL PUMPS

Electric driven screw displacement situated starboard side engine room:- Forward, centre and aft.

2 - FIRE AND SANITARY PUMPS

Electric centrifugal situated forward bulkhead in engine room - port and starboard.

1 - SANITARY PUMP

Electric driven two plunger pump situated forward end engine room.

MAIN BILGE PUMP

Electric driven centrifugal situated port side engine room lower platform.

BALLAST PUMP

Electric driven centrifugal situated port side engine room lower platform.

EMERGENCY AIR COMPRESSOR

Electric driven two stage situated port forward in engine room.

M.V. "NELLY" ex "Long Island" ex "Mormacmail"

AUXILIARY FRESH WATER CIRCULATING PUMP

Steam driven duplex situated for'd in engine room.

2 - DONKEY BOILER FEED PUMPS

Steam simplex situated port aft in engine room - forward and aft.

REFRIGERATING MACHINERY CIRCULATING WATER PUMP

Electric centrifugal situated starboard side engine room.

2 - DOMESTIC FRESH WATER PUMPS

Electric driven two ram pumps situated starboard side in engine room - inboard and outboard.

3 - OIL FUEL BOOSTER PUMPS FOR MAIN ENGINE FUEL

Electric driven gear type situated starboard aft in engine room - forward, centre and aft.

3 - MAIN ENGINE FRESH WATER COOLERS

Situated starboard side engine room:- for'd upper; for'd lower; aft.

3 - MAIN ENGINE LUBRICATING OIL COOLERS

Situated port side engine room:- Outboard, centre and inboard.

EMERGENCY DIESEL

6 cylinder Buda Diesel engine direct coupled to 100 K.W. D.C. generator.

J.R. E. H. G. G. G.