

Port and starboard screw and tube shafts renewed. (Forging Reports 7 attached.)

Port and starboard Guthans Patent stern tube and bearing glands renewed, together with complete new lubricating system, in its entirety.

Two new bronze, four-bladed propellers fitted. These propellers were examined and tested by Surveyors to American Bureau of Shipping and marked A14B 4484 and 4485, 3/6/43.

The three Atlas diesel auxiliary engines smashed and now replaced with similar new engines and compressors. (See Report 4c attached.)

Independent bilge, two wash, sanitary and fuel oil transfer pumps renewed.

All other pumps opened up, examined and placed in good condition.

All sea valves and cocks renewed in way of engine room.

Bilge, ballast, sanitary, lubricating and oil fuel pipes in way of engine room renewed, together with valves and connections, tried out on completion and found in order.

The injection air system has now been disconnected and two small and one large air receivers removed.

The remaining large injection air receiver has now been connected to starting air system as an additional starting air receiver. It was examined internally and externally, together with the two large starting air receivers and all three receivers examined under hydraulic test of double the working pressure and found in order.

All starting air piping, valves and connections renewed. The installation examined, on completion, under hydraulic test pressure of 800 lbs. per square inch and found in order.

A new vertical donkey boiler fitted at aft end of engine room, together with feed pump, steel feed, fuel and steam piping. (See Report 5b attached.)

Feed piping examined after installation under hydraulic test pressure of 440 lbs. per square inch and found in order.

Steam piping examined after installation under hydraulic test pressure of 330 lbs. per square inch and found in order.

On completion of installation the boiler examined under steam and safety valves adjusted to 110 lbs. per square inch.

Oil fuel burning installation examined under working conditions, emergency controls tried out and all found in good condition.

Fifteen minute accumulation test carried out on boiler safety valves and found in order.

The cargo piping installation examined under hydraulic test pressure of 150 lbs. per square inch and found satisfactory.

ELECTRICAL INSTALLATION

The three main generators and all motors in engine room sent to makers, overhauled, placed in good condition and refitted.

The main switchboard, together with all mountings, fuses etc. renewed as originally and all power and light wiring renewed in way of engine room and aft accommodation.

The entire electrical installation tested according to Rule, examined under full working conditions and all found in order.

On completion of repairs the entire machinery installation examined under maneuvering and full sea trial and all found in good and efficient working condition.

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Renewed as fitted originally Dec 15/11/43



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