



The following new auxiliaries have been installed:-

- P + S auxiliary engines and generators. See Kiel F.E. Report No. 609.
- Port aft starting air compressor (ED). See Augsburg Cert. No. 3126, dated 27.9.51
- 2 fresh water cooling pumps (ED). See Augsburg Cert. No. 3139/1-2 dated 24.10.51
- 2 sea water cooling pumps (ED). See Augsburg Cert. No. 3138/1-2 dated 24.10.51
- 1 aux. fresh water cooling pump (ED). See Bremen Cert. No. 267 dated 11.10.51
- 1 aux. sea water cooling pump (ED). See Bremen Cert. No. 268 dated 11.10.51
- 2 L.O. service pumps (ED). See Augsburg Certs. Nos. 3245 + 3152 dated 7.3.52 + 7.11.51
- 2 main L.O. coolers
- 1 fresh water cooler, See Bremen Cert. No. 265 dated 19.10.51
- 2 aux. starting air receivers. See Germ.Lloyd Cert. Nos. 750730D+75077D dated 16.6.51
- 1 observation tank for heating coil returns.

**For LMC:**

The following existing machinery has now been opened out, examined and found or placed in good condition.

- Steam engine driven generator set in its entirety.
- Port fwd. starting air compressor (steam).
- Ballast pump (ED).
- Bilge pump (ED).
- G.S. pump (ED)
- O.F. Transfer pump (ED)
- Both O.F. pressure pumps (steam) and 2 O.F. heaters
- Sanitary pump (steam).
- Both feed pumps (steam).
- 2 main starting air receivers and 1 small workshop air receiver.
- 1 cascade tank.
- 4 O.F. daily service tanks.
- Aux. condenser (tested).
- Steam pipes 3" bore and over, tested.
- Pumping arrangement.
- Steering gear and windlass.
- Electrical installation.

Main and auxiliary machinery examined under full power at sea, and all found in good order.

**ELECTRICAL INSTALLATION:**

Switchboard dismantled and re-built with switchgear, fittings and cables provided for 2 new 100 KW generators, air compressor, sea and fresh water cooling pumps, L.O. service pumps, etc. as per approved plan No. MKE 568 a.

Generators, switchboard, motors, cables and fittings examined. Insulation resistance measured on completion of repairs and found satisfactory.

All generators tried out in parallel under working conditions, switch gear and governors tested and found in good order.

**FOR DBS:**

Donkey boiler examined internally and externally together with its mountings, manholes, doors and their fastenings and placed in good order. Safety valves adjusted under steam to the above steam pressure. Steam smothering arrangement verified. Control rods checked.

**Note:**

The vertical donkey boiler has now been removed from the vessel.

**MACHINERY REPAIRS: (Wear & Tear)**

Steam driven starting air compressor, all piston rings renewed, piston rod machined, crosshead machined, bearings remetalled, crankshaft dressed, bearings adjusted, all valves dressed, interior cleaned and tested.

Generator steam engine, piston rod skimmed, piston rings and valve spindle renewed; bearings adjusted.

Ballast pump, both piston rods and all rings renewed, crankpins machined, bearings renewed.

Bilge pump, both water cylinder liners and buckets renewed, rods skimmed, crankpins dressed, bearings adjusted.

G.S. pump, 1 bucket and all rings renewed, rods skimmed, 1 valve seat and cone renewed.

O.F. transfer pump piston rings renewed, bucket rings renewed, crankpins dressed, bearings adjusted.

Both O.F. pressure pumps, all valve spindles, piston and bucket rings renewed.

Both feed pumps, piston and bucket rings renewed, rods machined.

Valve chests of all pumps dressed.

Condenser, both tube plates and 330 tubes renewed (tested).

Windlass piston rods and valve spindles machined. Guides and all bearings adjusted. Second reduction wheel renewed.

All bilge pipes renewed.

3 settling tanks removed from aft platform and placed on newly installed forward platform.

1 settling tank left in its position on aft platform for donkey boiler.

Steam smothering lines fitted according to Rule requirements.

Both donkey boiler feed check valves renewed (tested). Funnel renewed.

Sundry minor repairs effected.

**BOILER REPAIRS:**

130 smoke tubes expanded.  
P. wing 1 c.c. wrapper stay renewed.

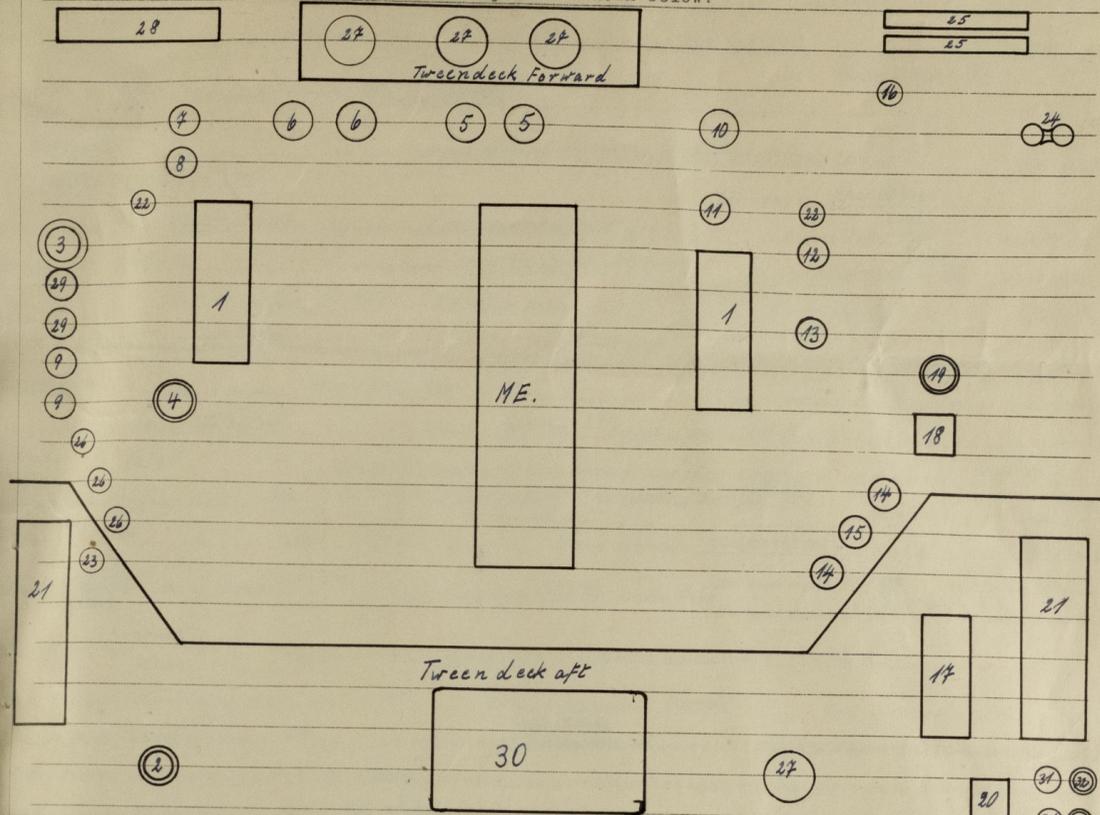
**S.R.L.:**

- 1) The vertical donkey boiler has now been removed from the vessel.
- 2) The old aux. engines and their foundations have now been removed and new foundations and aux. engines installed.

These items may now be deleted from the S.R. List.  
Note: The entry DB(vertical) 180 lbs in the Register Book, column 13, may now be deleted.

Ford.

The re-arrangement of auxiliary machinery is as shown below:



- |                                  |   |
|----------------------------------|---|
| 1. 2 aux. engines and generators | 16. 1 Hydrofor pump                           |
| 2. 1 steam generator set         | 17. Condenser                                 |
| 3. 1 air compressor (steam)      | 18. Cascade tank                              |
| 4. 1 air compressor (ED)         | 19. Evaporator                                |
| 5. 2 fresh water cooling pumps   | 20. Observation tank for heating coil returns |
| 6. 2 sea water cooling pumps     | 21. 2 main starting air receivers             |
| 7. 1 aux. fresh water pump       | 22. 2 aux. starting air receivers             |
| 8. 1 aux. sea water pump         | 23. 1 workshop air receiver                   |
| 9. 2 L.O. service pumps          | 24. 1 Butterworth pump                        |
| 10. 1 O.F. transfer pump         | 25. 2 Butterworth water heaters               |
| 11. 1 G.S. pump                  | 26. 3 oil purifiers                           |
| 12. 1 Bilge pump                 | 27. 4 O.F. settling tanks                     |
| 13. 1 Ballast pump               | 28. 1 Fresh water cooler                      |
| 14. 2 Feed pumps                 | 29. 2 main L.O. coolers.                      |
| 15. 1 Sanitary pump              | 30. Donkey boiler.                            |
|                                  | 31. 2 O.F. pressure pumps                     |
|                                  | 32. 2 O.F. heaters                            |