

The class is subject to the turbine gearing being examined.

The Trieste Surveyors now report the machinery examined throughout and the following repairs and alterations effected.

Repairs: propellers and gearing renewed, turbines re-bladed and rotor journals machined, condensers and boilers partly re-tubed.

Alterations: A Loffler water tube boiler and superheaters fitted, supplying steam to 2 additional turbines.

The boiler pressure is 1850 lb. ^{1990 lb.} per square inch and the steam temperature is 878° F.

The new turbines are geared to the 2nd pinion shafts of the original turbines and the exhaust steam passes to the main turbines. The scantlings and materials of the new high pressure plant are in accordance with the plans and proposals approved in this Office.

One of the single ended boilers has been removed to make room for the high pressure installation.

The Surveyors report, however, that on a trial run from Trieste to Naples and Genoa, some of the details of the high pressure plant were not satisfactory. An automatic steam shut off valve intended to cut out the HP turbine in case of accident, and the automatic feed control for the boiler did not function properly. Hand control is fitted however, and this can be used when necessary.

An additional water gauge is required on the boiler and a hand control is also in use here in the meantime.

The fuel combustion is incomplete owing to an insufficient air supply to the boiler and to irregular supply of fuel oil. The fuel oil supply is at present that which is used for the Scotch boilers and an independent oil fuel supply unit is recommended.



As this high pressure plant is auxiliary to the main propelling machinery, the efficiency of the latter is in no way affected by these defects and the Makers of the plant have Representatives on board who will acquire the necessary information for carrying out the required modifications.

It is submitted the vessel is eligible for the notation ~~LMC~~ LMC 9,36, Both S 8,36/and that no notation regarding the high pressure boiler and turbines be made in the Register Book until the plant has been placed in order and satisfactorily reported upon.

For Register Book - 6 DB 1 SB
Omit GS 1008
Amend HS to 39143 and 56 cf to 52 cf.

For RMC - Note examination of all (3) generator engines.

*Amend NHP when
HP plant is in order*

yes It is submitted the Trieste Surveyors be requested to state whether the torsion shaft referred to in the Secretary's letter (E) dated 13.12.35 has been replaced by a shaft of 75 mm. diameter as approved and whether the valve chest referred to in the Secretary's letter (E) dated 20.5.36 has been replaced by one of approved manufacture.

no
Trilli
11.01.36

The Surveyors should forward a report on the Loffler Boiler on Rpt.5c.

[Signature]

30.9.36

[Signature]



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Foundation

as this high pressure plant is necessary to the
 main propelling machinery, the efficiency of the latter is in
 no way affected by these defects and the nature of the plant
 have been examined on board and will require the necessary
 information for carrying out the required modifications.
 It is submitted the vessel is eligible for the
 without special condition
 notation 1000 P, 1000, Both 1000 and 1000 and that no notation regarding
 the high pressure boiler and turbines be made in the Register
 Book until the plant has been placed in order and satisfactory
 reported upon.

For Register Book - 1000 1000
 1000 1000
 1000 1000 and 1000 1000
 For 1000 - Note examination of all 1000
 generator engines.

It is submitted the Trieste Surveyors be requested
 to state whether the torsion shaft referred to in the Secretary's
 letter (2) dated 10.12.55 has been replaced by a shaft of 10 mm.
 diameter as approved and whether the valve chest referred to
 in the Secretary's letter (2) dated 10.12.55 has been replaced
 by one of approved manufacture.
 The surveyors should forward a report on the
 boiler boiler on 10.12.55.

Handwritten notes:
 10.12.55
 10.12.55
 10.12.55
 10.12.55