

Twin S.S. "Leopoldville."

have now been fitted - The two working tail shafts have been examined in the lathe before fitting on the new liners. A new cast bronze liner has now been fitted to each of the shafts and these shafts are now kept as spare on board.

The Lignum vitae in the Port Stern tube bush has been renewed and neck and gland bushes bored out to suit the new shaft.

The Starb. Stern bush and tube have been renewed complete.

2nd Damage Found: A piece of about 16" x 10" broken out of one of the bronze propeller blades (built propeller) starb. side.

A new bronze propeller blade has now been fitted.

Alterations and B.S.:

Now done: Port and Starb. main engine H.P. cylinder liners renewed with piston rings

H.P. and 1st I.P. piston valve rings and liners in casings renewed.

L.P. Bowerbach turbines fitted to Port and Starb. engine as per attached Bremen Report h: 1837.

Port and Starb. Thrust shaft and 1st Intermediate shaft abaft thrust shaft removed and 1st & 2nd intermediate shaft renewed, abaft L.P. Turbine shaft. see attached foreing report h: 5127. 5991

The Port and Starb. main condensers have been renewed, now 480 m² cooling surface

Port and Starb. main Injection valves now renewed, now 650 mm

Also two additional intermediate condensers fitted.

A new Weirs contact feed water heater has been fitted instead of the surface heater

All sea connections & all intermediate shafting examined
align pipes examined & tested (adpt 9/8/37)

The two main circulating pumps have been replaced by two new Drysdale centrifugal steam driven pumps.

output 5500 gallons per minute at 445 Revs. suet. deliv. 17"

Three lubricating oil pumps fitted. (Weirs pumps) diam of cyl. 9" stroke 18" capacity 50 m³ oil each at 24 double strokes per minute. suet. and deliv 4"

One of the main funnels has now been removed.

Superheaters of the North Eastern Type ME. L.E. S.C.O. (combustion chamber superheaters) have now been fitted to the wing comb. chamber of each of the four wing boilers.

See also attached plans of superheaters, pipes & connections

The superheaters, and all steam and water pipes with valves and branched pieces have been tested.

(Please see next page)

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in accordance with the rule requirements.

Plans: M.N. 10910 A- 9157/40-8921/80-81-9157/30.
9157/20. marks on Superheaters examined with attached
Manchester Report.

Alteration of pipes plan N: 1929-10 C.1.

Examined the six main boilers int. and ext. with
safety valves, doors and mountings.

Repairs effected to the 3 aft boilers: All plain tubes
renewed, and girders rebedded and all girder stays
on comb. chamber tops renewed.

The six main boilers tested by hydraulic pressure
to 250 lb per sq" and found all in order.

Examined the six main boilers under steam, also the
superheaters under steam, and adjusted the safety valves
of the main boilers to 218 lb per sq" and the safety valves of the
safety superheaters to 217 lb per sq" and found all in order.
A dynamo of 50 Kw. has been replaced by one of 100 Kw.

The electric installation has been examined under working
conditions and megger test made, with satisfactory
results.

Main and auxil. machinery tried under working
conditions and found same satisfactory.

Shore gear examined on board as per Bremen Ref. N: 1837.

J.H.B.