

of CARDIFF.

11th. April 1917.

A.B. Harris.

Owners representative survey the Steel Screw Steamer "HARMATTAN",
22 tons gross of London on the 24th. March 1917 and subsequent dates
vessel lying afloat in the Roath Dock Cardiff for the purpose of
ascertaining the nature and extent of damage to the tank top plating
Nos. 2 & 3 Holds alleged to have been caused by the corrosive action
of the dunnage coal combined with urine, -with which it became saturated
the plating.

On examination found.

In No. 2 Hold:- Tank Top plating.

Counting from forward:-

No. 3 plate in centre ^{strake} ~~STRAKE~~ No. 3 plate in strake next centre
strake, Nos. 1, 2, & 3, plates in 2nd. strake from centre strake, Nos.
3 plates in 3rd. strake from centre strake on Port Side; and No.
plate in strake next centre strake, No. 3. plate in 2nd. strake from
centre strake, and Nos. 3 & 4 plates in 3rd. strake from centre strake
on the Starboard side to be badly wasted locally, and holed in places.
No. 3. Hold.



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(2.)

Nos. 2, 3, & 4 plates in the 2nd. strake from the tunnel, and the
plate in the 3rd. strake from the tunnel on the Port side badly
ruined.

ruined.

That the plates enumerated above be renewed.

It was also found:-

In No. 2. Hold, that the forward plate in the centre strake
plate in the 2nd. strake from centre strake, and No. 4. plate
3rd. strake from centre strake on the Port Side, and in
Hold, No. 3. plate in the 2nd. strake from tunnel on the
Port Side all more or less wasted.

ruined.

That as the wasting action may not be arrested that this
be further examined, and dealt with as found necessary.

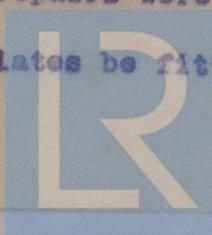
It was further recommended that the tank top ceiling, which was
saturated with urine, be lifted and renewed, the tank top
to be scraped and to be recoated in way of the ceiling.

Margins and limber board over the bilges be lifted, the bilges
cleaned out, and sealed for examination and recoated, and the margin
boards be relaid with part new material; No. 2. Hold Double
tank be cleaned out for examination, and Nos. 2 & 3 Hold double
tanks be tested by water pressure on completion of the repairs,
bulkhead plating, tunnel plating, pillars in contact with the
ceiling to be cleaned and recoated.

These recommendations being made to place the vessel in as good
efficient condition as she was before the damage was sustained.

The vessel being urgently required for Admiralty purposes and
the renewal of the tank top plating having to be deferred,

the following recommendations as temporary repairs were made and carried
out: Seventeen (17) riveted doubling plates be fitted on the



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(3.)

top plating in No. 2. Hold and Four (4) similar plates be fitted
the tank top plating on the port side of No. 3. Hold.

A. B. Harris

SURVEYOR TO LLOYD'S REGISTER,

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