

TECHNICAL CIRCULAR No. 674 of 6th March 2021

	То	All Surveyors/Auditors. All flags
	Title	Underwater hull repair
	Reference	CONARINA class

Underwater hull repair

A tanker suffered erosion damage in the grey water tank. A ship repair company was contacted by the owner to perform on-site repairs.

<u>Damage</u>

-A small damage is created over time because of the recurring impact of the instance water on the exact same spot repeatedly.

-This damage occurred regularly in the ballast tanks under sounding pipes as was this case.

-If the damage is caught before hull plates are perforated, clad welding can be used to fill up the area.

- This is also a permanent repair that will avoid a condition of class. The hole had formed in the hull plating.

<u>Repairs</u>

-The divers started by installing a cofferdam on the waterside of the affected plating.

-Next they removed the sounding pipe covering the area on the inside. They could then safely remove a plug which had been installed as a temporary solution.

-The damaged plating was cleaned and prepared for the operation.

-As agreed with the classification society, an area measuring 300x300mm was cut away.

-The edges of the hole were prepared for the insert and the positioning of the new plate.

-The insert was then welded following the Hydrex class-approved procedure using a full penetration weld.

-The independent inspector carried out ultrasonic testing and the repair was approved by class surveyor who attended the operation.

-The sounding pipe was re- installed, and the cofferdam was removed.

Customer Service Center

5201 Blue Lagoon Drive, 9[™]. Floor, Miami, Fl., 33126 Tel: 1 (305) 716 4116, Fax: 1 (305) 716 4117, Joel @conarinagroup.com

Technical Head Office

7111 Dekadine Ct. Spring, Tx., 77379 Tel:1 (713) 204 6380

valbozen@hotmail.com

-A small round double plate was installed under the pipe to prevent the new insert from eroding again.

REFERENCES: - CONARINA instructions and Hydrex ATTACHMENTS: No

Kindest Regards,

Val Bozenovici Naval Architect – Conarina Technical Director

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