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# Lloyd's Register of Shipping.



Port GDYNIA

4th June 1948.

This is to Certify that

Walter Kieber

the undersigned Surveyor to this Society did at the request of **Główny Urząd Morski, Szczecin**, attend on board the Steel Screw Tugboat/ Icebreaker "SWAROZYC" 712 tons gross of Szczecin on the 3rd June for the purpose of ascertaining the nature and extent of the damage cause not stated.

Upon examination

Found

Forward high pressure cylinder.

Cylinder cover broken and holed in clearance recess for piston rod end.

Hole approximately 4" x 2".

Piston rod end and nut badly hammered.

Piston junk ring set screws (1" whitworth). 6 out of 8 originally fitted slack and two bent. The remaining two were completely clear of the piston one being bent and battered the other in small pieces. Battered washers were also found.

High pressure valve, top section badly scored and two rings broken.

High pressure valve chest top liner scored.

High pressure cylinder slightly scored.

Forward low pressure cylinder bottom section of piston, five out of six diagonal ribs, cracked at junction of ribs and periphery of piston.

In view of the above the after high pressure cylinder was opened up for examination.

Found

Six out of eight junk ring set screws although screwed in tight were registering at their points only and both copper and steel washers were slack under their heads.

Oil gland of screw shaft locking badly and deposits of foreign matter with traces of metal escaping from stern gland.

Starboard side auxiliary steam distribution valve box. Valve seats slack in valve chest.

Recommended

To be renewed.

To be removed for further examination and rectification.

Screws to be renewed by screws with slightly deeper heads and wired through holes drilled in heads as extra safety device. Clearance of piston to be checked after fitting set screws. Washers to be renewed as necessary and fitted according to plan on board.

To be renewed with rings.

No repair considered necessary.

No repair considered necessary.

No repair considered necessary.

Recommended

New bolts be fitted extended to take securing wire through their heads, as for forward High Pressure piston, noted above.

Screw shaft to be withdrawn for examination oil gland placed in good condition and stern gland repacked.

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(SVAROZYC)

Found

Starboard auxiliary steam valve  
distribution chest valve seats  
sleak.

Port boiler

One main stay nut leaking.

Two smoke tubes weeping.

Recommended

To be further examined and new  
seats fitted as necessary,

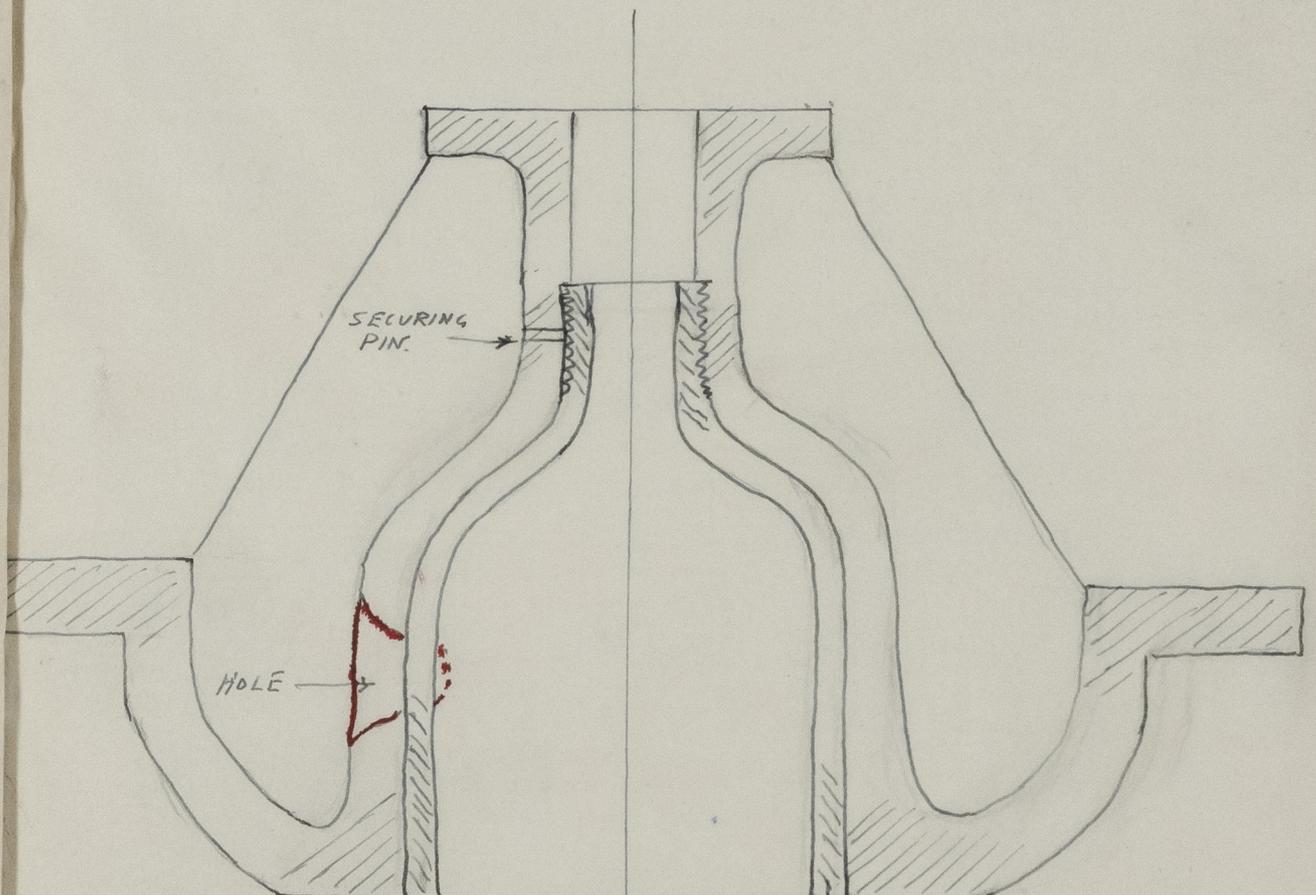
Nut to be refitted.

To be re-expanded.

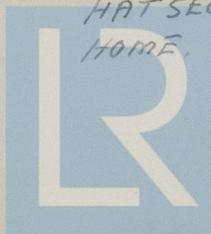
No docking facilities being available at Stettin it is further recommended that a temporary repair be effected to the broken cylinder cover by machining the piston rod nut clearance recess and fitting a hat sectioned mild steel patch (see sketch) which will enable the vessel to operate pending receipt of a new cover. Vessel to proceed to dry dock for the examination of screw shaft and oil gland.

*H. K. ...*

Surveyor to Lloyd's Register.



COVER TO BE MACHINED AND  
HAT SECTIONED PATCH SCREWED  
HOME.



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