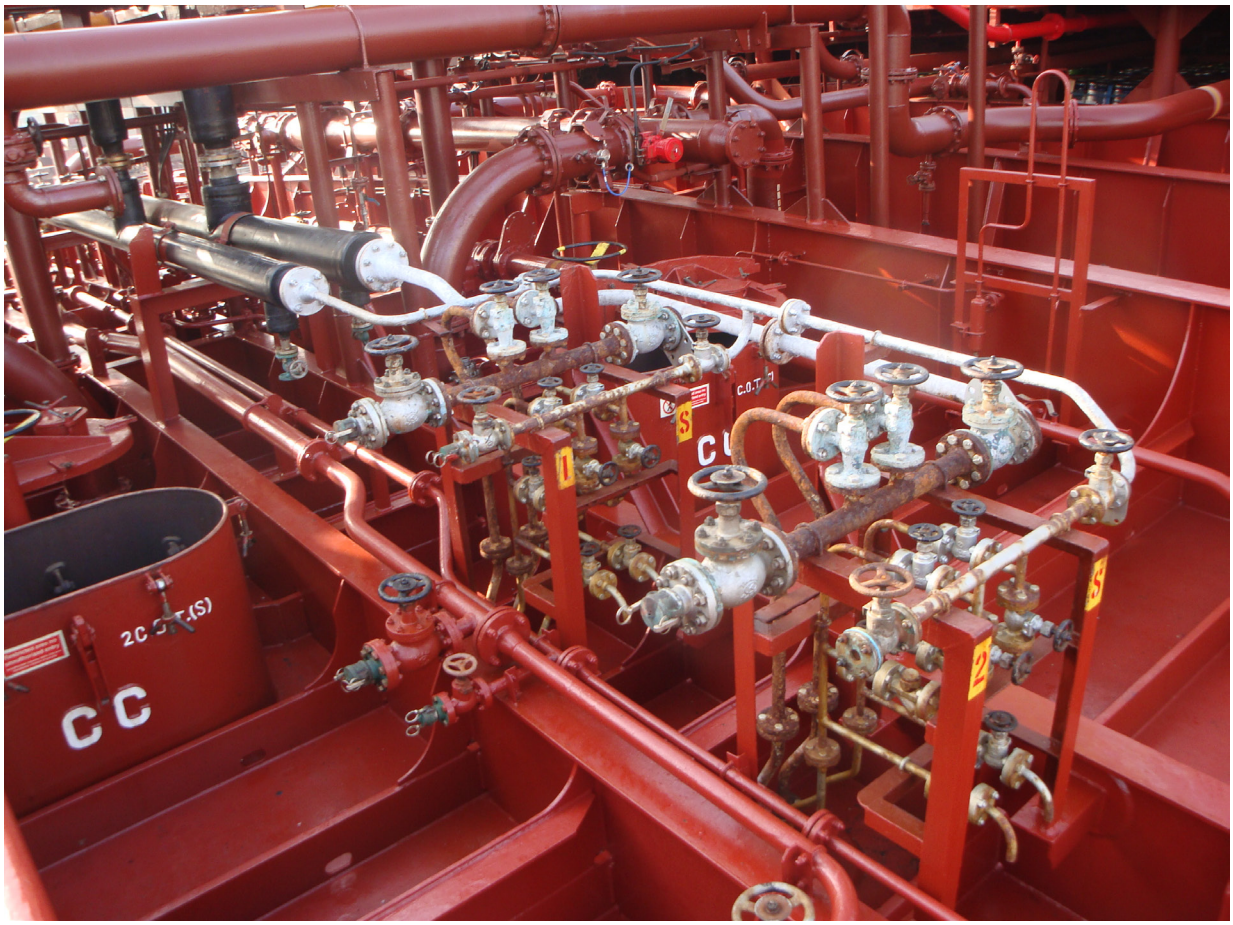
Heating Coils manifold

Application:	Heating Coils manifold suffering from external corrosion.
Place:	Tuzla, Turkey
Date:	November 2014
Job and report done by:	Clients crew
Wencon products used:	1050+1060 Hi-Temp, Reinforcement Tape, Cleaner, Perago disc, appl. tools



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Introduction:

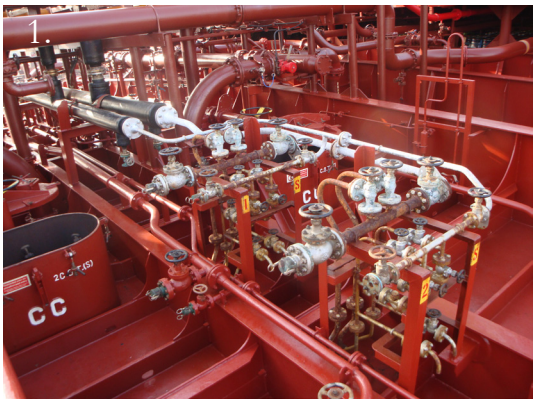
Heating Coils Manifolds suffering from external corrosion problems for several years.
Several initiatives to stop the attacks have been done, using different kind of products, but with limited success.
Task is to find a viable solution to the problem. Besides, to find a solution that makes the crew able to perform the job, without use of special equipment, but with accessible tools, expected to be on board a tanker.

1. Overview: One out of 14 deck Heating Coils manifold.

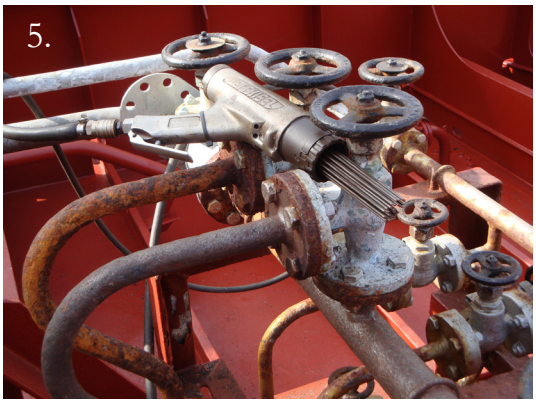
2. Piping is heavy attacked by corrosion. Condition of valves, seems to be a lot better by visual inspection.

3. U-bolts to be removed, in order to lift pipes from bearing. Purpose is to achieve free access to application.

4. Free access to a proper surface penetration and a decent application, without individual openings in the coating by every bearing point on the pipeline.



5. To prepare the surface, a Needle gun is used for chipping the complete surfaces - a very time-consuming task. It is a crucial factor, to ensure the best adhesion possible, under these working conditions.



6. By chipping it is very clear, that piping locally suffers from heavy corrosion.

7. Close up picture during chipping.

It is important, to obtain as rough surface as possible during Chipping, to ensure the best adhesion.

Therefore, do not use wire brush or similar, since this will only polish the surfaces.

8. Wencon Cleaner applied with a brush, to degrease pipings, prior to application.

9. Wencon 1050/1060 Hi-Temp applied as the first layer, using a brush. To ensure the best adhesion, it is important to rub the Wencon Coating into the dry surface, and hereafter distribute a thick layer of Coating.

10. While 1050/1060 Hi-Temp is still wet, Wencon Rein-forcement Tape is wrapped with 50% overlap. Wencon 1088 Light will penetrate the pores in the tape, and will divide to a smooth surface when using a brush. Afterwards, left for semi curing in approx. 1½ hour before applying second and final layer.

A good advice:

Place a finger in the coating, that leaves a fingerprint **- without sticking to your finger.** You are then ready for second layer.

11. Second and final layer, the Wencon 1050/1060 Hi-Temp applied, using a brush. After ended application, please allow minimum 12 hours curing, before opening steam valves from the Engine Room.

12. Final result.