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**TANKER TURBINE – Ballast Water System**

**Cargo Tanks**

Vessel has a total of 8 Port / Std epoxy coated cargo tanks as tanks 1, 2, 4 and 6 plus two tanks 3 and 5 are center tanks and one set of port and starboard slop tanks positioned as deck tanks. The 100 pct cargo tank capacity is listed as 15,570 m including the slop tanks.

The cargo tanks are constructed with corrugated transverse and longitudinal central corrugated bulkhead. Center tanks have no central bulkhead.

All tank are fully epoxy coated. As per last Hull Summary of 2011 tanks were rated with Coating as "Good". As per VPQ coating was rated as "good"

The vessel prepared No 4 P and No 5 C cargo tanks for our inspection.

In March 2008 a crack was found on cargo tank bottom plating in way of the corrugated bulkhead between No. 5 and 6 cargo tanks due to misalignment of bulkhead to floor structures in No. 6 bottom and side water ballast tanks.

Permanent repairs were carried out. The cracked bottom plating was re-welded, doublers fitted (approx. 600 x 200 mm) to bulkhead and on opposite side of bottom structure. Doublers as transition plate were welded to tank plating to provide alignment. Crew reported cargo ingress into the ballast tank as a result of crack.

Both tanks were in a similar condition and were in a good condition with no significant exceptions noted. Coatings were generally intact.. Rust colored spotting and strips were seen on under deck but were not clear if was rust or just staining.

All sighted and accessible welds were intact and no damages, repairs or distortion was noted.

Tank fittings, ladders and Framo pump are also of stainless steel and were also in a satisfactory condition. Tank was relatively stain free barring areas on under decks, some parts of bulkheads. Some unexplained scabs were seen at some locations under the coating.

The stainless steel steam heating coils appeared sound and well secured.

Packing on tank access domes was seen to be in satisfactory conditions with some rust on channel.

<b>General Tick/ Mouse Click only once</b>	<b>None</b>	<b>Minimal</b>	<b>Intermediary</b>	<b>Considerable</b>	<b>Not Sighted</b>
<u>Repair/Upgrade required</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Tank Fittings**

Each tank is equipped with a tank dome, PV valves, one IG connection, Radar type remote ullaging system, 98 pct alarm, manual ullage port, multiple programmable cleaning machines, openings for vent fans etc. Slop tanks have two tank cleaning machine each.

A PV breaker is provided on the IG line along with one mast riser. The PV valve height is well raised above the main deck and suitable for access.

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