

Two-stroke

Copenhagen, October 2026

Action code: WHEN CONVENIENT

Corrosion behaviour and maintenance guideline for heat shield on injection valves

Concerns

Owners and operators of Everllence B&W two-stroke marine combustion engines.

Engine types:

- 10.5 LGIM and LGIA where a heat shield has been applied on the nozzle.
- 10.7 engines where a heat shield has been applied on the nozzle.

Summary

All ship crews must follow these guidelines when overhauling the injection valve and, thereby, the heat shield on the nozzle.

This Service Letter serves to clarify and give an overview of the corrosion behaviour of heat shields on injection valves.

Contact details

Engine.support@Everllence.com with reference to SL2026-790.

References

Instruction Manual 4245-0020-0001

[Service Letter 2026-782 Guiding overhaul intervals](#)

Download the above references from our [Nexus extranet platform](#).



Figure 1: Heat shield – see red arrows on the left

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Heat shields on injection valves

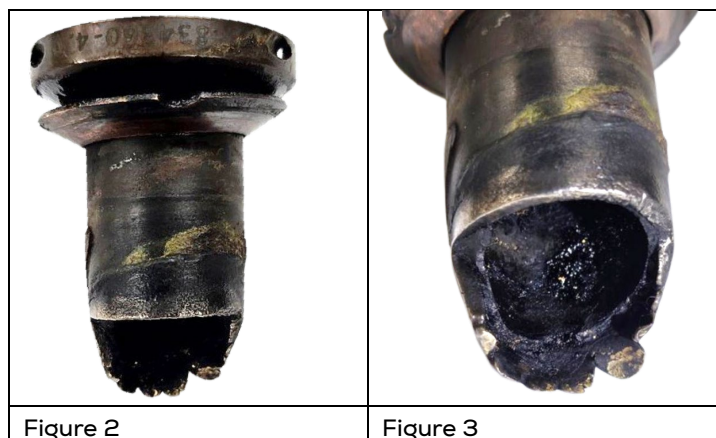
The primary function of the heat shield is to protect and increase the durability of the nozzle by reducing its temperature. The heat shield is considered a sacrificial component that protects the nozzle. In other words, considerable wear of the heat shield must be expected during the lifetime of the nozzle.

Specific observations on G80ME-C10.5-LGIM engines in service:

- Reports indicate heavily corroded heat shields on fuel injection valves.
- Corrosion is likely accelerated by small amounts of fuel drippage after injection, which stagnates on the heat shield surface.
- A combination of operating temperature and fuel composition contributes to the corrosion. Increased rate of corrosion is expected when using high-sulphur fuels.

Evaluation of the corrosion behaviour of heat shields:

- The corrosion occurs gradually and does not pose any additional risk of damage to combustion chamber components and the performance of the engine.
- Corrosion of heat shields as shown in Figures 2 and 3 is acceptable. If the condition of the fuel nozzle is acceptable, it is not necessary to replace the heat shield before the nozzle.
- Replacement of the heat shield is scheduled to occur simultaneously with the nozzle at the specified service life interval.



The instruction manual has been updated to reflect the above information.

For further advice and information on heat shields on injection valves, please contact Everllence in Copenhagen by e-mail at EngineSupport@everllence.com

Yours sincerely



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