

## SERVICE BULLETIN

1202500

**TITLE: Effect of Exhaust gasses on pump heater core chambers**

**DATE: April 29th, 1996**

Most Darley Champion pumps are equipped with a heater core chamber that can be used to prevent the pump from freezing. This was typically done by diverting engine coolant into this chamber, or, occasionally, by diverting exhaust gasses into this chamber.

It has recently been determined that in some cases directing the engine exhaust gasses into the pump heater core chamber can cause corrosion to the pump head castings.

This corrosion on the heater core chamber walls appears to be caused by poorly tuned engines emitting excessive quantities of soot and corrosive gasses. This corrosion does not occur on most installations.

Even though the risk of damage or failure is small, **we now recommend against diverting exhaust gasses into the heater core chamber.** The heater core chamber should be heated only through the use of engine coolant.

It is not recommended, however, that pumps installed with exhaust gas heating be changed to use engine coolant. Departments with pumps that use exhaust gasses to help prevent freezing should make sure that the truck engine is properly tuned and not emitting excessive smoke and soot. Also, if a valve is installed between the exhaust system and the pump, it should be closed when not needed during above freezing temperatures.

Please direct any questions regarding this bulletin to our Engineering office at 800-634-7812 or 715-726-2650.

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