

# Rail Safety Bulletin

Issued by Alberta Transportation, Dangerous Goods, Vehicle and Rail Safety

It has come to our attention some locomotive owners may not be aware that locomotives must be equipped with a functioning spark arresting device or a turbo charger.

The Industrial Railway Locomotive Inspection and Safety Rules, note “All components of locomotives must be maintained to perform their intended functions”.

Spark arrestors and turbo chargers play a critical role in the prevention of wild land fire and ignition of explosive atmospheres.


By regulation, locomotives must be inspected / maintained to ensure the spark arrestor or turbo charger is functioning as designed.

The following must be conducted as part of the 92 day inspection that is completed by a competent locomotive maintenance person. NOTE: Fall protection may be required.

A copy of the 92 day locomotive maintenance check sheet can be found at the following link:

<http://www.transportation.alberta.ca/3767.htm>

## INSPECTION

<p><b>Turbocharged Locomotives</b></p> <ul style="list-style-type: none"><li>• Inspect for carbon build-up on the <a href="#">eductor</a> tubes and exhaust stack (<i>no arrester is required</i>).</li><li>• On muffler equipped locomotives, you will have to remove or have the eductor removed for inspection.</li></ul> <p><i>(Note: The locomotive will have one exhaust stack.)</i></p>	<p><b>Non turbocharged Locomotives</b></p> <ul style="list-style-type: none"><li>• Inspect for correct application of arrester.</li><li>• Arrester properly cleaned and maintained.</li><li>• Exhaust system in good order.</li></ul> <p><i>(Note: The locomotive can have up to four exhaust outlets and will require up to four spark arresters).</i></p>
<p><b>Steam Powered Locomotives</b></p> <ul style="list-style-type: none"><li>• Inspect for a screen over the entire exhaust stack to ensure it has been maintained in good order.</li></ul>	
<p><b>Exhaust Stacks</b></p> <p>Stacks contaminated with carbon and caramelized oil must be cleaned</p>	

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