

Johnson Matthey's DPFi™ diesel particulate filter system achieves new Canadian safety certification

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- Emissions control technology to improve air quality for underground workers is certified for operations in Canada and approved for use in the US

Johnson Matthey (JM) today announced that its **DPFi** electrically regenerating diesel particulate filter (DPF) has been certified by the Canadian Standards Association (CSA), confirming its safety and performance for use in underground mining and tunnelling environments.

The DPFi system has now been independently certified by three leading bodies – the CSA, Canmet Materials (both Canadian), and by the Verification of Emission Reduction Technologies Association, based in Switzerland. It has also been approved by the Mine Safety and Health Administration in the US. This backing provides strong assurance that the technology effectively reduces diesel particulate emissions in demanding underground settings.

Designed for light-duty diesel vehicles such as the Toyota Land Cruiser*, the **DPFi** system helps protect workers from harmful diesel particulate matter – a significant health risk in confined spaces. By regenerating electrically rather than relying on high exhaust temperatures, the system maintains consistent filtration performance, avoids filter blockages, and reduces downtime – all of which harm air quality and productivity.

When regeneration is required, drivers simply connect the vehicle to an external power source underground. This eliminates the need to bring vehicles to the surface and keeping air cleaner throughout the shift.

Stan Mack, Commercial Manager at Johnson Matthey, said: "The **DPFi** system is designed with a clear purpose – to protect people working underground in some of the toughest environments in the world.

"CSA certification, alongside recognition from other key bodies, confirms that this technology delivers proven improvements in air quality and worker safety."

While currently certified for the Toyota Land Cruiser, the **DPFi system can be adapted for other diesel vehicles, offering wider potential to improve underground air quality across global mining and tunnelling operations.*

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About Johnson Matthey



Johnson Matthey is a global leader in sustainable technologies. For over 200 years we've used advanced metals chemistry to tackle the world's biggest challenges.

Many of the world's leading energy, chemicals and automotive companies depend on our technology and expertise to decarbonise, reduce harmful emissions, and improve their sustainability.

And now, as the world faces the challenges of climate change, energy supply and resource scarcity, we're actively providing solutions for our customers. Through inspiring science and continued innovation, we're catalysing the net zero transition for millions of people every day.

For more information visit www.matthey.com.

For media enquiries

Email: [jmp@matthey.com](mailto:jmpr@matthey.com)

Telephone: +44 207 269 800