

Lower Fuel Costs, Lower Emissions and Zero Capex, leads Colas Rail UK to adopt Sulnox Eco

The Sulnox logo is displayed in a bold, dark blue, sans-serif font. The letters 'sul' are lowercase, while 'nox' is uppercase. The logo is positioned on a white rectangular background that is part of a larger graphic element on the right side of the header.

COLAS RAIL UK

Colas Rail UK, a leading provider of railway infrastructure services, conducted a three month evaluation of Sulnox Eco to assess its fuel efficiency and emissions reduction benefits. The 100% organic fuel conditioner was evaluated from September to December 2024, organised in collaboration with Sulnox master distributor A&S International, across six Class 66 Diesel Locos



THE EVALUATION

One locomotive first underwent emissions monitoring by ATESTA at UKRL's Leicester site in September, alongside load bank testing by Colas Rail UK to establish baseline fuel consumption across different power notches.

For the main evaluation, six locomotives ran for three months on the Railhead Treatment Train (RHTT) circuit in York using Sulnox Eco-treated fuel. The fuel conditioner was pre-dosed into two 22,500-litre Fuel Proof temporary fuel tanks at Network Rail's York site, with a 5-litre hopper ensuring precise dosing.

Operating under a high workload, the locomotives hauled heavy water wagons used for power-washing tracks ahead of winter, running 16-hour shifts, seven days a week - providing a controlled yet demanding environment for assessment.

THE RESULT

The fuel savings were substantial, with a 4.5% fuel efficiency improvement confirmed and emissions reductions equally impressive. This robust evaluation with compelling results, resulted in adoption across their Class 66 and Tamper fleets.



Vital fuel saving solution for the rail industry

"Cutting emissions is vital for rail's future, so seeing a drop-in solution deliver such significant reductions is a great result."

The fact that it drives major fuel savings so quickly makes it a no-brainer."

Dan Ditri,
Head of Energy & Carbon
Colas Rail UK

DETAILS OF EMISSION REDUCTIONS FROM THE TRIAL

- 47.5% Sulphur Oxide (SOx)
- 4.3% Nitrogen Oxides (NOx)
- 32.6% PM2.5 and 30.4% PM10
- 9.1% Carbon Dioxide (CO₂)
- 63.2% Carbon Monoxide (CO)

Independently verified by Cura Terrae (formerly Atesta).



Fuel savings were substantial at 4.5% and emission reductions were equally as impressive!

sulnox

With a 4.5% improvement in fuel efficiency, Colas Rail UK stands to save six figures annually on fuel alone. When combined with significant emissions reductions and cleaner engine performance, Sulnox Eco delivers a strong return on investment - one that Colas Rail UK's key stakeholders are backing:

"The numbers from these trials make it clear: Sulnox Eco helps our locomotives burn fuel more effectively and run cleaner. It's a no-disruption, high-impact solution that fits seamlessly into our operations."

PAUL CONWAY CEng FIMechE

Head of Engineering and Compliance Colas Rail UK



Sulnox reduces emissions and creates fuel efficiencies through unique, game-changing fuel conditioner

Benefits of using Sulnox*

- Fuel savings of 4-8%
- Lower engine oil temperatures
- Lower coolant temperatures
- Lower exhaust temperatures
- Reduced AdBlue consumption
- Increased Power & Torque

Environmental benefits of Sulnox*

- >60% reduction in Particulate Matter 2.5
- >50% reduction in Particulate Matter 10
- >30% reduction in a range of other GHG emissions



Taking you further, faster and cleaner

SULNOX SAVINGS CALCULATOR

Scan the QR code to get an indication of the Financial Savings and CO2 Reductions that your business could achieve.



The Old Brewery
2 Brewery Court, High Street
Theale, RG7 5AH
United Kingdom

hello@aands-international.com
Phone: +44 (0)118 930 4321

INSTAGRAM | TWITTER | LINKEDIN
www.aands.international