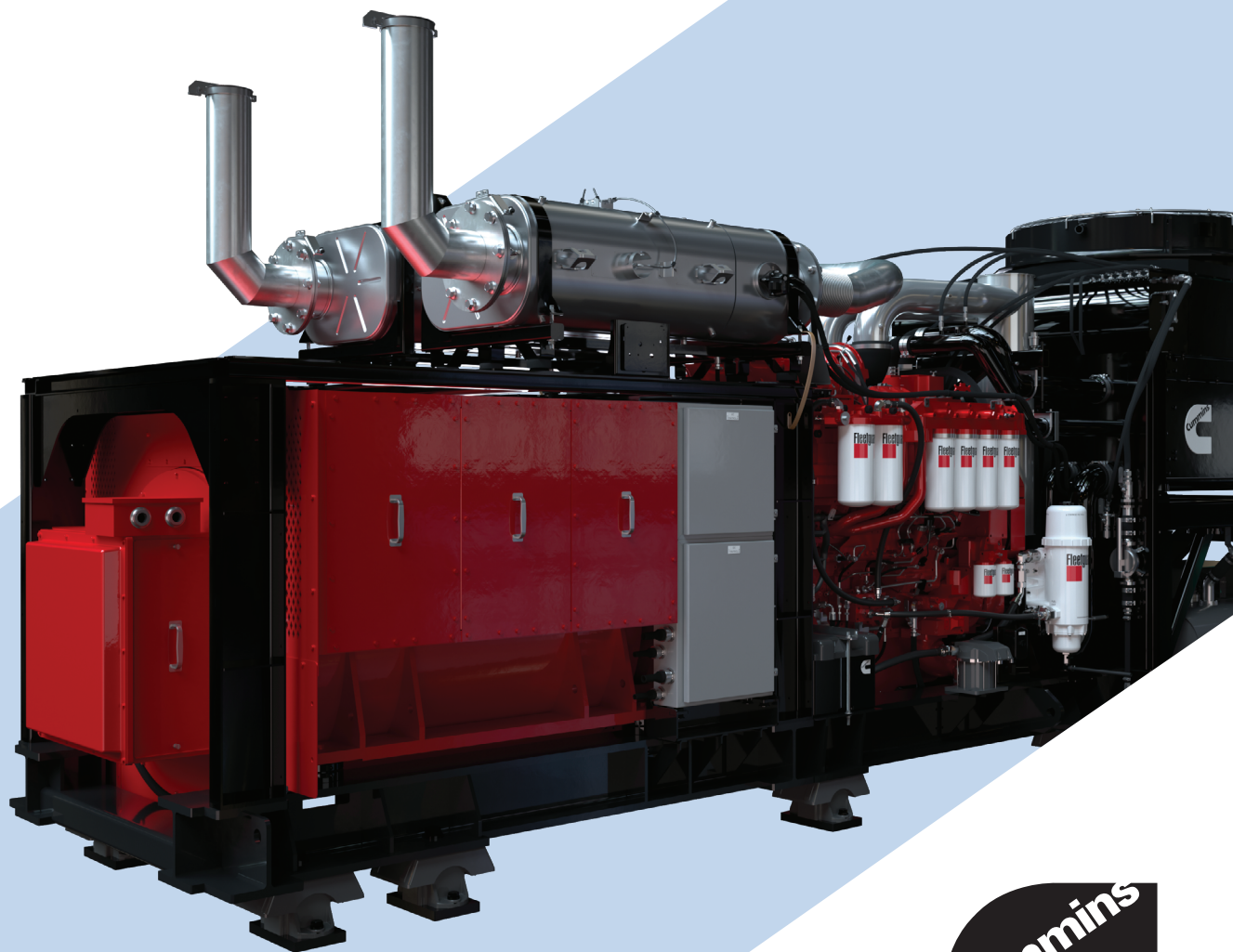


Tier 4 Switcher Locomotive

Cummins clean power solutions



Switcher Locomotive

We unleash the power of Cummins by demanding that everything we do leads to a cleaner, healthier, safer environment.

Cummins can provide a positive environmental impact from Tier 4 locomotive repowers



- Quieter: High-speed engines provide less noise in the operator cabin and surroundings.
- Leak-free engines: Eliminates spillage on tracks and railroad customer's property.

Did you know?

- Cummins offers clean diesel solutions for switcher locomotive repowers and replacement to meet and/or exceed your specific EPA and grant funding requirements.
- About 90% of switcher locomotives were built prior to 1985 long before emission regulations, therefore 10,000+ units in North America today are pre-Tier 0.
 - Very high NOx, black smoke, leak oil, fuel and lube oil pass through the exhaust, loud, ground vibration when left idling.
- Many of the historic switcher yards also find themselves in neighborhoods and urban areas, thus exhaust emission and noise pollution reduction are necessary.

Repower example

- In 2013, Cummins began repowering pre-Tier 0 switcher locomotives with the QSX15 Tier 4.
- The first Tier 4 certified locomotive was powered by Cummins.
- Cummins helps eliminate about 75 tons of NOx reduction per year per repower engine* compared to the Tier 0 standard.
- This is a significant reduction in fuel consumption.
- Cummins also provides the following drop in single engine solutions for Tier 4 Switcher conversions:
 - QST30 from 1000 to 1500 hp
 - QSK50 at 2400 hp

* Based on Tier 4 switcher repower from non-regulated on an EPA switcher duty cycle.



CUMMINS QST30 TIER 4
Locomotive Power Module



Tier 0

Tier 4

90%*

**NOX AND PM
REDUCTION**



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