



Freedom CNG[®]

New power for the road ahead

DEF – SCR Added Costs

Why CNG no DEF?

- DEF weighs 9lbs per gallon
- DEF costs between \$1.80 bulk - \$5.00 by the gal.
- The regeneration time of the filter is .5-2.5 hours.
- The cost of a replacement filter \$2,500 - \$5,000.
- Professionally clean approximately \$1,500.
- Recommended replacement after 200,000 miles.
- All in DEF / SCR Filter adds approximately \$.20 per gallon of diesel.

Why CNG no DEF?

The added DEF costs

- DEF Fluid cost 1 gallon per 50 gallons of diesel fuel
 - 3-4 cents additional per diesel gallon
- Filter replacement @ 200,000 miles typically 31,000 gallons of diesel fuel used, depending on the driving.
 - 8-16 cents additional per diesel gallon
- Regeneration time – depending on driving style at 100 -200 gallons of diesel.
 - 6-12 cents additional per diesel gallon

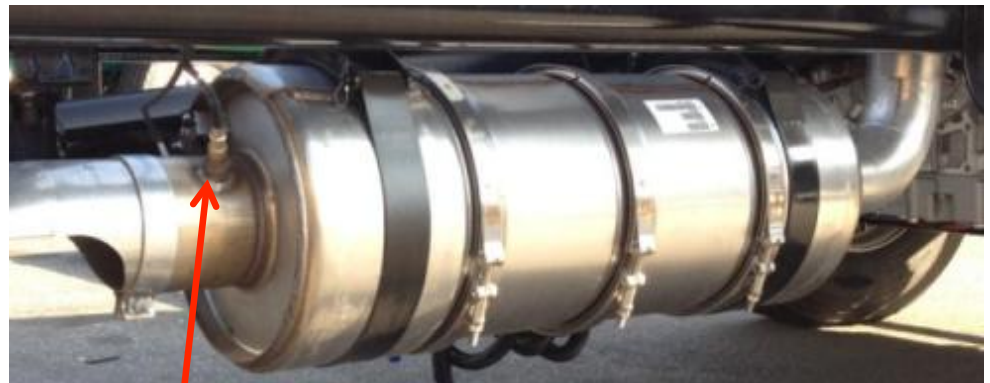
\$.20 - \$.32 cents additional per diesel gallon

So if diesel is \$2.00 per gallon add a minimum of \$.20 per gal.

Why CNG no DEF?

CNG Three Way Catalyst After-treatment

- Similar to catalyst on gasoline passenger cars.
- Packaged as a muffler. Vertical or horizontal mount.
- Easy to install
- Weighs ~100 pounds
- Passive device
 - No Regeneration
 - No SCR
 - No Maintenance



O₂ Sensor

Cummins Westport

Thanks for your time today!

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CNG

A Pollution Solution to Clean Our Air

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