Eco Global Solutions customer case study: School Bus Fleet
Industry: School Districts

Reductions in Harmful Emissions Discovered in School Bus Testing

In addition to the environmental benefits attributable to EGS BOOST, the fuel burn efficiency improvement will also provide an economic benefit.

OVERVIEW

- A school bus fleet in Nevada evaluates the reduction in oxides of Nitrogen (NO_x) emissions in bio diesel fuel.

CHALLENGE

- Maximize fuel economy to alleviate operational costs.
- Decrease the levels of harmful emissions into the environment.

EGS SOLUTION

- Four (4) types of engines are tested. Two mechanical and two electronic.
- EGS BOOST is administered to the B20 bio diesel fuel currently used and the NO_x levels are measured electronically through the tailpipe.

RESULTS

- The Vehicle Maintenance Coordinator reported a 35% average reduction in NO_x emissions.
- An average decrease in Carbon Monoxide (CO) of 37%.
- An average reduction in Gas Temperature of 19%.
- Fuel Burn Efficiency improved by 6.3%.

CONCLUSION

- Considering all benefits delivered, the maintenance coordinator expects to see a decline in maintenance costs and better fuel efficiency.
- According to readings of NO_x levels it is safe to deduce that less harmful emissions are released with the use of EGS BOOST.

Unit Number: 24801 "Electronic C Series Engine"		
TEST	**MILEAGE**	**NO_x**
BASELINE	15,577	505 PPM
FIRST TRIAL	16,899	370 PPM
	TRAVELED	**REDUCED**
	1,322	135 PPM

Unit Number: 24501 "Electronic B Series Engine"		
TEST	**MILEAGE**	**NO_x**
BASELINE	22,467	529 PPM
FIRST TRIAL	24,055	361 PPM
	TRAVELED	**REDUCED**
	1,588	168 PPM

Unit Number: 96939 "Mechanical C Series Engine"		
TEST	**MILEAGE**	**NO_x**
FIRST TRIAL	110,486	385 PPM
SECOND TRIAL	112,638	432 PPM
THIRD TRIAL	119,354	100 PPM
	TRAVELED	**REDUCED**
	8,868	285 PPM

Unit Number: 24801 "Mechanical B Series Engine"		
FIRST TRIAL	**MILEAGE**	**NO_x**
FIRST TRIAL	127,352	479 PPM
SECOND TRIAL	128,445	567 PPM
THIRD TRIAL	134,558	461 PPM
	TRAVELED	**REDUCED**
	7,206	18 PPM

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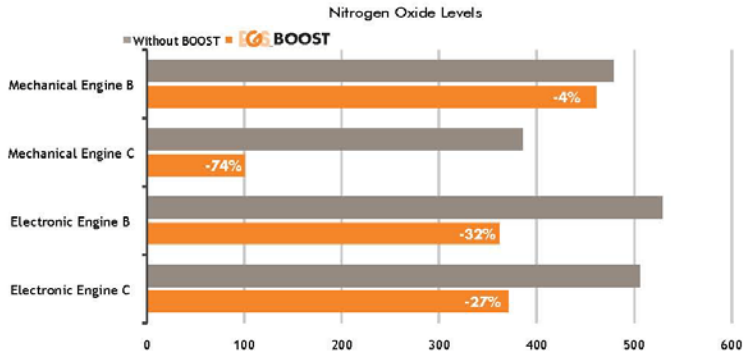
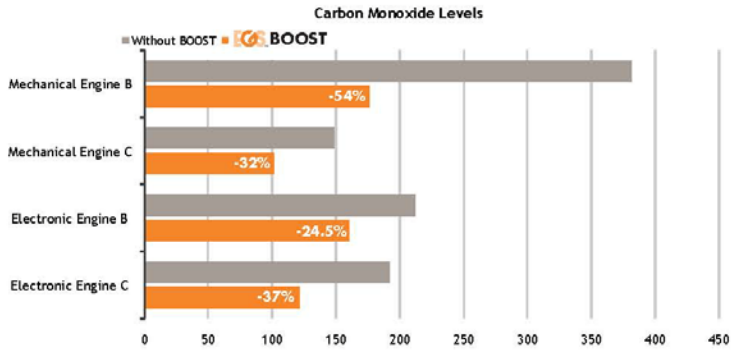
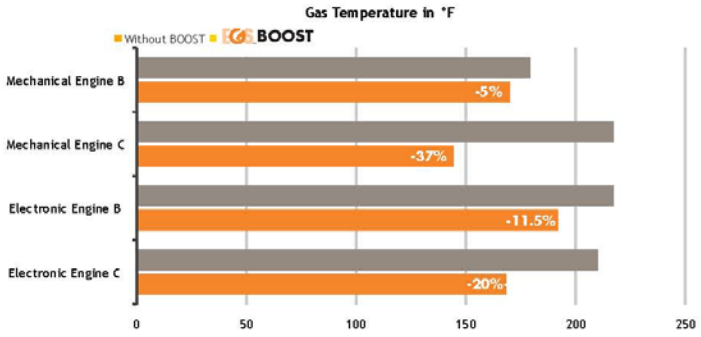
Eco Global Solutions™

EGS BOOST

Applied to school buses running B20 Biodiesel
1 gallon to every 3,000 gallons of B20 Biodiesel







CONCLUSION:

Average NOx reduction: 35%

Average Carbon Monoxide reduction: 37%

Avergae Gas Temperature reduction: 19%

Fuel Burn Efficiency improvement: 6.3%

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