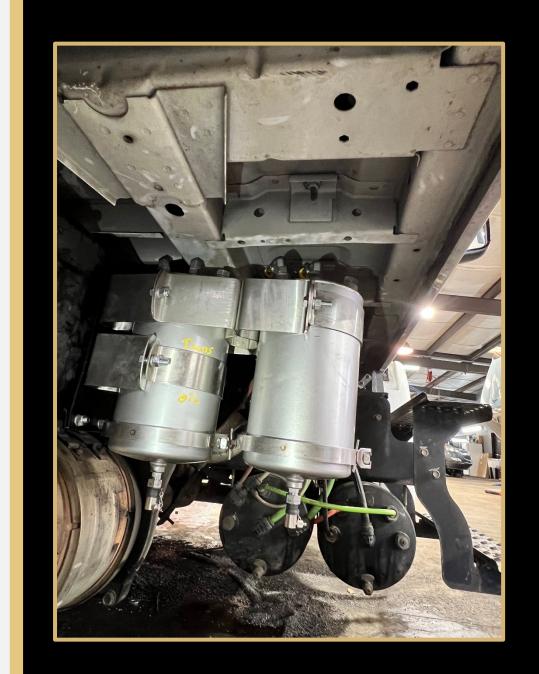




Trinity RSS

Class 6 Truck Case Study

Who is Trinity?



Harvard, Inc. (+)



EnergyCel LLC

1st Generation

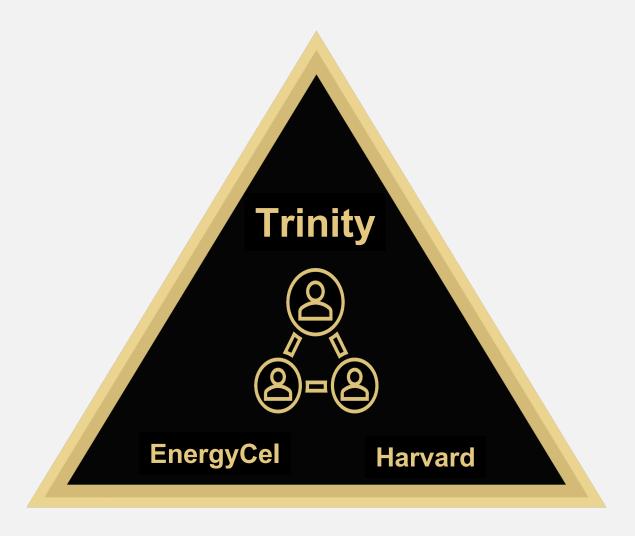
Filters and conditioners 30+ years of experience **Over 1,000,000 filters** 500,000 fuel conditioners **Global application**



Trinity Refining & Safety Systems

2nd Generation

Magnetically enhanced filter Increase the filter's functional life by 67% Combine fuel conditioning and filtering **Industry unique combination Enhanced performance**



Exclusive Licensing Agreement

Owner partners 30+ years of experience Over 1,000,000 filters 500,000 fuel conditioners Across multiple industries Global reach







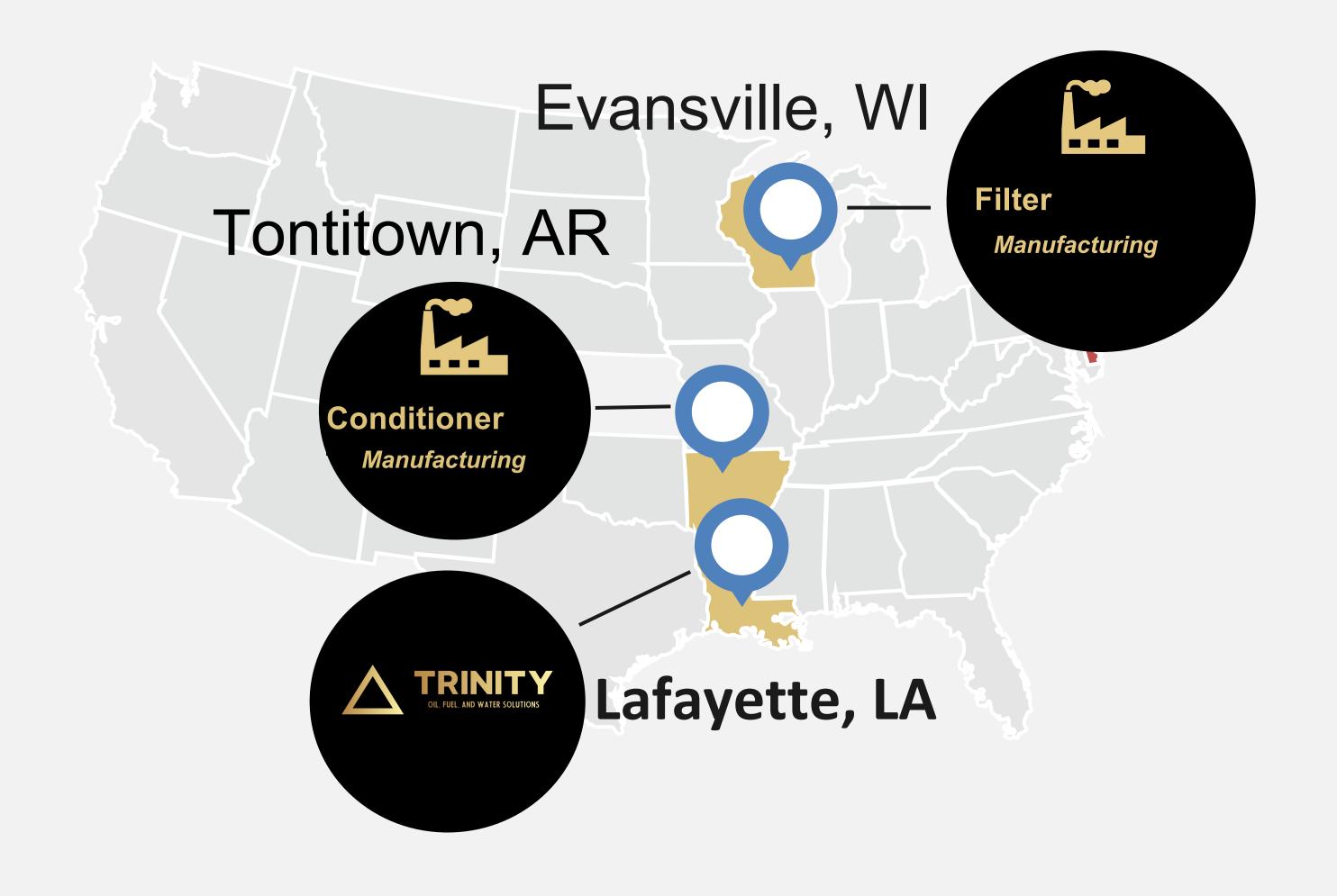
Capability Statement

Trinity RSS specializes in oil and fuel filtering and conditioning for consumer, commercial, and industrial equipment.

Value Proposition

Reduce operating costs by extending equipment lubricant and fluid life, generating cleaner and more efficient fuels while reducing maintenance downtime and repairs and extending the life of the equipment.

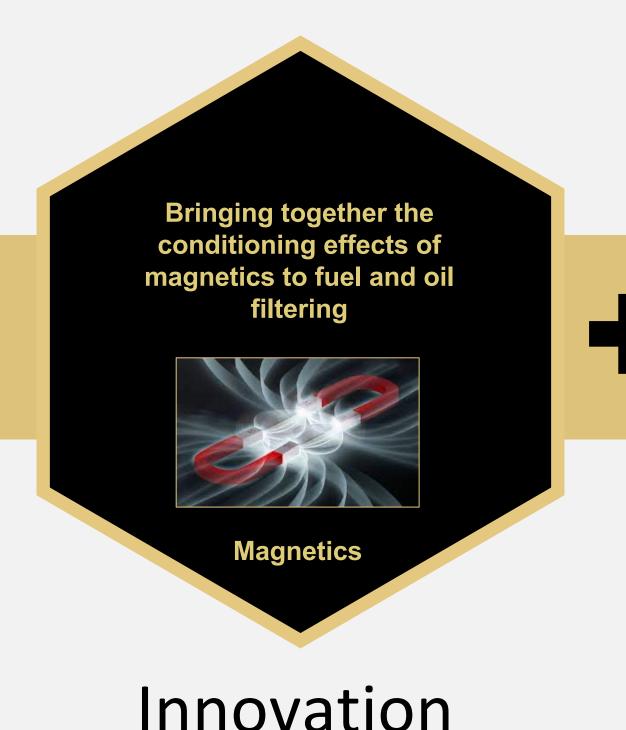
"A hydrocarbon bridge to alternative energy solutions"



Trinity RSS HQs and Manufacturing Locations

The Trinity RSS System

"A Unique and Innovative Solution to Oil and Fuel Conditioning and Filtering"



A magnetically charged polarity source (CPS) fuel conditioner combined with a state-of-the-art CPS-integrated 1-micron filtering element.

Fuel Conditioner restructures hydrocarbon molecules for improved combustion

CPS enhances 1-Micron Filter Element by 30-40%

Technology

Superior Method:

Continuous oil cleaning (24/7/365)
Non-interference application

Superior Performance:*

Reduced contaminants 99%
Extends oil life 3X to 4X
Extends equipment life up to 7X
Increases combustion efficiency
Reduces operational costs by up to 67%
Reduced oil disposal by 75%

Advantage







Class 6 Vehicle Test Results





Products

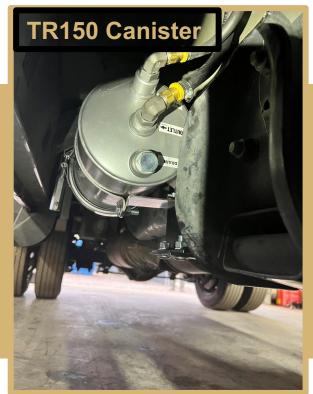
Bypass filter system Fuel conditioner

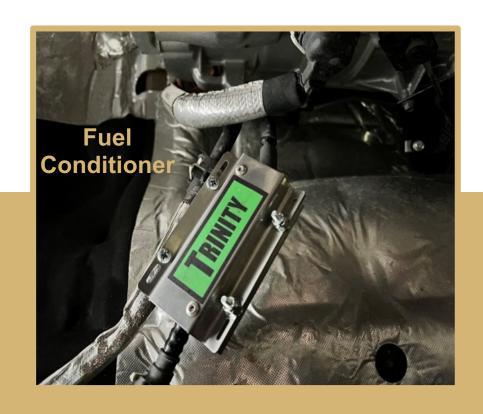
Lubricants

Transmission Fluid

Fuels Diesel Gasoline







Vehicles

F450/550

Dodge 4500

International MV670

Independent third-party lab Predictive Maintenance Services, Inc.

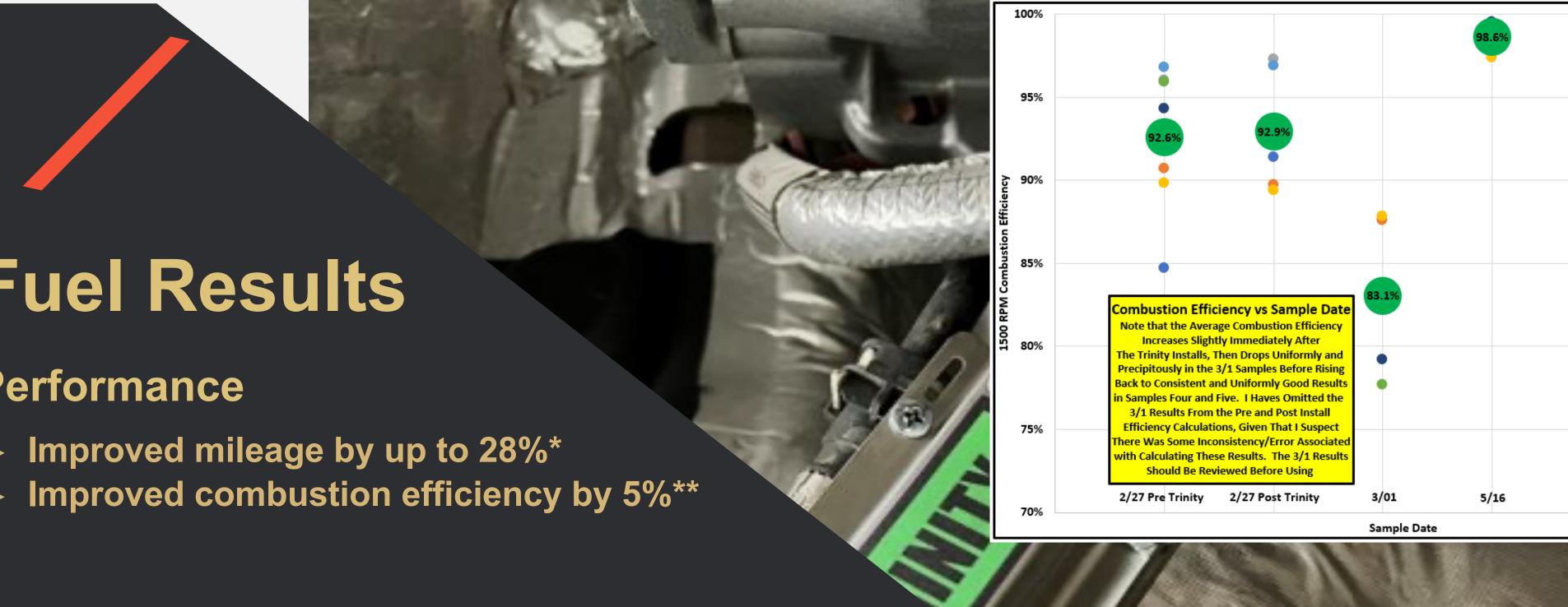




Parameters

Average of 10,000 miles/mo
Oil Samples at 7500 miles
14-week Trial

Test Conditions and Environment



Truck 09

Truck 11

Truck 13

Truck 15

Truck 19

Truck 20

Truck 21

Truck 23

Average

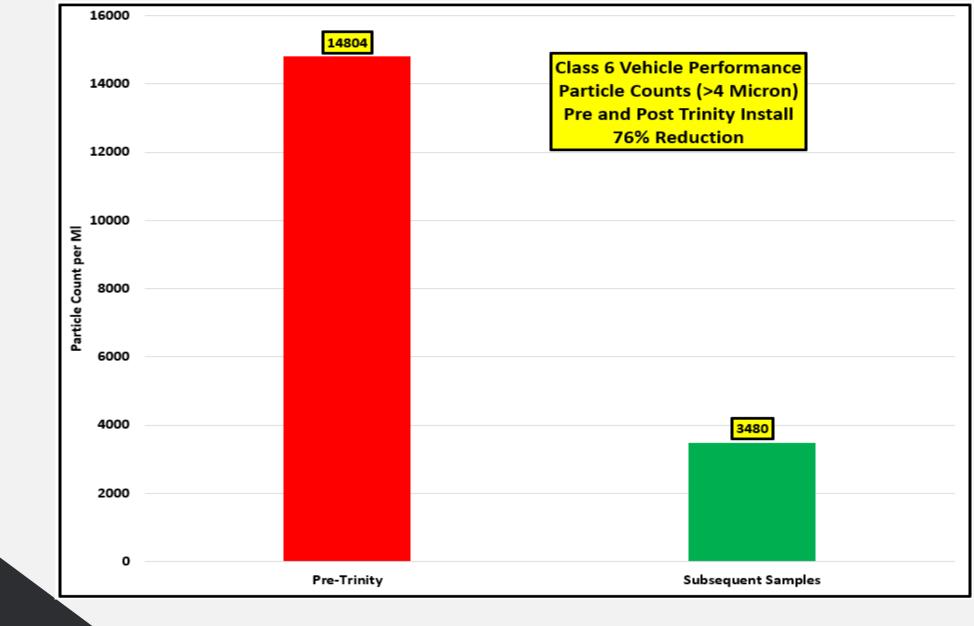
6/01

Emissions (positive but requires more data)

ed on OD2B sensor in each vehicle and Samsara tracker software llected using a ECOM J2KN Emissions Tester

Oil Results

- ► Extended oil service interval 3X-4X (>25,000 miles)
- **▶** 76% Reduction in Particles
- **▶** 35% reduction in wear metals (DL/DS)
- ▶ 29% reduction in water (Ave of 323 ppm)
- ► Maintained acids <3.5 mg KOH/g
- ► Maintained base >2.0 mg KOH/g



Average Improvement at 25,000 miles Particle count (77%)
Water content (28%)
Wear particle content (26%)

Holds Acid Number <3.5 mg KOH/g Holds water below 400 PPM Particle count is better than new oil up Wear metal counts better than new oil

^{*} Based on <u>in-progress</u> case studies with ten class 6 vehicles, F450/550 and <u>International MV670</u> Cummins with an average of 10,000 monthly mileage. The test is six weeks in progress. Combustion efficiency based on European standards. Doubling the oil life from 7500 to 15,000 miles (early results). Per ECOM J2KN Emissions testing data. Extended engine life based on Noria Corp Equipment life extension tables.

^{**} Combustion efficiency is "how well the fuel being burned is utilized in the combustion process.."

Transmission Results

- ► Extended transmission service interval 3X
- **▶** 86% Reduction in Particles
- ▶ 63% reduction in wear metals (DL/DS)
- ▶ 27% reduction in water (Ave of 142 ppm)
- ▶ Maintained acids <2.0 mg KOH/g</p>



Performance Value*

Cost Value*

Lower operational costs by 22%
Extended oil service intervals b 3X
Reduce disposal by 67%
Increase combustion efficiency by 5%**
Extend equipment life and overhauls by 2X*
Improved mileage by 28%**

Oil

Save \$4300 per truck per yr. Save \$65,000 per 15-vehicle fleet***



Fuel

Save \$9000 per truck per yr. Save \$135,000 for a 15-vehicle fleet.



Total Savings \$200,000/Year

Transmission

TBD due to extended drain intervals and timeline

* Based on in-progress case studies with ten class 6 vehicles, F450/550 and International MV670 Cummins with an average of 10,000 monthly mileage. The test is six weeks in progress. Combustion efficiency based on European standards. Tripling the oil life from 7500 to 25,000 miles (early results). Per ECOM J2KN Emissions testing data. Extended engine life based on Noria Corp Equipment life extension tables.

** ECOM J2KN Emissions tester. Combustion efficiency is "how well the fuel being burned is utilized in combustion. Mileage based on OD2B sensors
*** Assuming downtime of \$107/hr, labor, and materials.



Fuel Saved per Year*

Save 2656 gallons of fuel per truck Save 39,840 gallons of fuel per 15-truck per fleet

Oil Saved per Year*

Save 40 gallons or .95 barrels of oil per truck. Save 600 gallons or 14 barrels of oil per 15-Truck fleet.

Combustion**

Improve combustion efficiency by 5%

^{*} Based on <u>in-progress</u> case studies with ten class 6 vehicles, F450/550 and <u>International MV670</u> Cummins with an average of 10,000 monthly mileage. The test is six weeks in progress. Combustion efficiency based on European standards. Doubling the oil life from 7500 to 15,000 miles (early results). Per ECOM J2KN Emissions testing data. Extended engine life based on Noria Corp Equipment life extension tables.

^{**} Combustion efficiency is "how well the fuel being burned is utilized in the combustion process.."

Green Value (Green House Gases)

CO2 Saved per Year*

Fuel**

Saved 58K lbs or 26 metric tons per truck Save 876K lbs or 397 metric tons per 15-truck per fleet

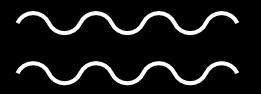
Oil**

Saved 901 lbs of CO2 per truck per yr.

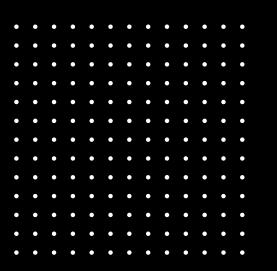
Save 13.5K lbs or 6 metric tons per 15-Truck fleet.

^{*} Based on <u>in-progress</u> case studies with ten class 6 vehicles, F450/550 and <u>International MV670</u> Cummins with an average of 10,000 monthly mileage. The test is six weeks in progress. Combustion efficiency based on European standards. Doubling the oil life from 7500 to 15,000 miles (early results). Per ECOM J2KN Emissions testing data. Extended engine life based on Noria Corp Equipment life extension tables.

^{**} Based on EPA Greenhouse Gases Equivalencies Calculator







DISCUSSION

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