

Your **TESTING RESOURCE PARTNER**
for transportation science, systems & components



BURNER/HEAT

- Independent Temperature Control, Flow and Air Fuel Ratio
- Up to 4 Catalyst at 35g/sec
- Real-time Damage Calculation
- Gasoline or Natural Gas Fuel Sources



ASH LOAD

- Generate Ash During Combustion
- Measure Pressure Delta Across Catalyst
- Within 0.2 grams tolerance of Ash Load Target



EXTERNAL ADDITIONS

- Phosphorous
- Hydro-thermal
- DEF Fluid



FABRICATION

- CNC and Water Jet Cut Components
- Complex Exhaust Systems and Flanges
- Mig and Tig Welding
- Custom Fixturing

CATALYST AGING SERVICES FROM TRP

SIGNIFICANTLY REDUCE CATALYST AGING TIME & COSTS WITH PATENTED C-FOCAS® & NATURAL GAS BURNER TECHNOLOGY

At TRP, we have accredited laboratories across the country dedicated to engine and vehicle testing, component testing, engineering services, and customizable test cells that can accommodate a wide range of test scenarios.

To support your automotive catalyst validation program, you need state-of-the-art technology, precise testing and data, and fast results. Our catalyst aging services utilizes patented C-FOCAS® and natural gas burner technology to help significantly reduce aging costs and over-temperature conditions for OEMs and suppliers. We also provide burner manufacturing, engineering services, and support for your aging program.

CAPABILITIES

- Age full-sized automotive catalyst systems rapidly and precisely
- Simulate the flow of exhaust gas from an engine under a variety of load conditions
- Age 3-way catalysts or gasoline particulate filters (GPF) using gasoline or natural gas fuels under stoichiometric, lean, or rich conditions
- Measure oxygen storage capacity of catalysts pre and post aging to index deterioration or compare catalyst performance
- Age DOC or SCR components under lean conditions
- Accumulate ash in a GPF to a targeted mass with the newly developed Mass Injection Cart System (MICS)
- Accurately inject oil or metered poison to simulate engine oil consumption
- Inject diesel exhaust fluid (DEF) into combustion stream for selective catalyst reduction (SCR) aging
- Precisely control catalyst aging temperature with less variation (and to higher extremes) than can be obtained from an engine-based system
- Simulate high-engine exhaust temperatures and maximum flow-rates with hot gas burners
- Correlate our C-FOCAS® burner to pre-existing aging cycles as well as further develop the cycle to higher temperatures in order to reduce the overall time and cost of your aging program
- Run up to four catalysts simultaneously



ACCREDITATIONS

(844) 730-4175

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CATALYST AGING SERVICES



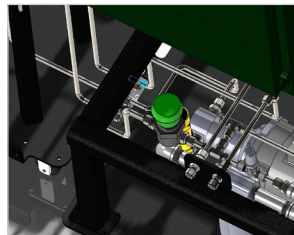
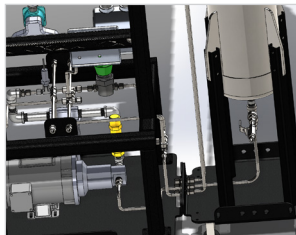
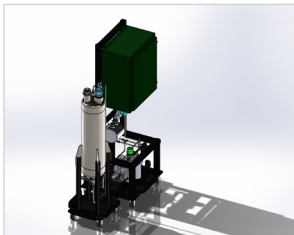
TRP LABORATORY | TAYLOR, MICHIGAN

TEST	PARAMETER(S)	TEST METHOD
Catalyst Aging	(0-250) SCFM, (0-1165)°C for cycle testing and up to 1200°C steady state testing	<ol style="list-style-type: none"> 1. EPA SBC: 40 CFR Part 86, Appendix VII Standard Bench Cycle (SBC) 2. RAT-A: California Environmental Protection Agency Air Resources Board California evaluation procedures for new aftermarket catalytic converters 3. ZDAKW Aging Cycle 4. Custom or OEM aging cycles upon approval of the owner of the Cycle¹

¹Aging Cycle must be within equipment capabilities.

MASS INJECTION CART SYSTEMS

TRP Labs accumulates ash in a GPF to a targeted mass with the newly developed Mass Injection Cart System (MICS). This system is also our method for adding additional components to the exhaust stream such as phosphorus, DEF or water.



WHY US?

At TRP, we provide comprehensive testing services to ensure your products meet the highest safety, reliability, and compliance standards. With decades of experience, we are a trusted partner for automotive manufacturers, OEMs, and aftermarket producers.

UNMATCHED EXPERTISE

Backed by years of industry experience, our team of seasoned professionals excel as skilled testing specialists.

HIGH PRECISION LABORATORIES

ISO accredited labs feature innovative technologies, specialized facilities and advanced testing equipment.

EXTENSIVE TESTING SOLUTIONS

Diverse testing capabilities, from large commercial vehicles to small parts and their components.

CUSTOMER FOCUSED

A customer centric approach with tailored solutions to meet your specific project needs.

TRUST AND RELIABILITY

A proven track record of reliability, delivering quality results with quick turnaround times.

AURORA, CO

- High Altitude Laboratory
- Vehicle & Engine Testing
- Emissions Cert Testing
- PEMS Testing Services
- Mileage Accumulation
- Sub-Zero Cold Testing
- In Use Verification Program
- EV & HEV Testing



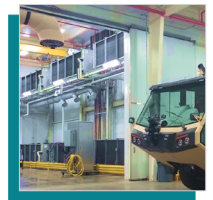
EMPIRE, CO

- High Altitude Test Center
- Elevation 8,900 ft
- On-road Development
- Sub-Zero Cold Testing
- 700 ft Drive-away
- On-Site Refueling
- EV & HEV Charging



COLUMBUS, IN

- Sea Level Laboratory
- Vehicle & Engine Testing
- Emissions Cert Testing
- Sub-Zero Cold Testing
- Mileage Accumulation
- Motorcycle/ATV/UTV
- In Use Verification Program
- EV & HEV Testing



LAPEER, MI

- Fuel Storage & Systems
- Component Testing
- Environmental & Durability
- Evaporative Emission
- Fill & Refueling Testing
- Lateral Slosh Testing
- Fire Resistance Testing



TAYLOR, MI

- Catalyst Aging
- Equipment Design & Production (NG1/NG2, Next Gen Burners)
- Fabrication & Machining
- Thermal Component Testing



TROY, MI

- Chassis & Suspension
- Shock Absorber Testing
- Component Testing
- Fatigue & Cyclic Testing
- Vibration Testing
- Thermal Test Conditions
- Exhaust Systems Testing

