

# SGS COLD TESTING CAPABILITIES

## SGS PROVIDES CONVENIENTLY BAD WEATHER ALL YEAR LONG FOR YOUR TESTING NEEDS

Rapid product development cycles depend on plannable work. Waiting for the weather to diagnose or validate a product feature adds months of schedule and uncertainty to development programs, while working in extreme weather can be inconvenient and dangerous. SGS's network of testing services laboratories offers controlled environments across the US that remove technical, cost and measurement uncertainty from your development program with quantifiable and repeatable testing conditions.



### TESTING CAPABILITIES

- Small components up to large vehicles in extreme conditions
- Temperatures can range from -65° C to 165° C in chambers both small to large depending on location
- 40' x 60' x 20' test chambers capable of continuous running rated conditions on 2000 BHP engines at -28° C
- 50' x 20' high altitude cold chambers
- 30' x 30' x 16' cold room with altitude simulation that makes it possible to test from sea level to extreme altitude
- 53' cold trailers
- Chassis dynamometer cold test cells with emissions testing capabilities
- 96" x 96" x 88" test chambers for component testing

### TEST TYPES AVAILABLE

- Emissions testing
- Cold start for engines and vehicles
- Cold performance
- Thermal performance profiling
- Cold mechanical development
- Thermal modeling verification
- Current product troubleshooting
- Cold procedure verification
- Thermal protection and enhancement testing
- Durability testing

### SUPPORT SERVICES

- Fueling
- Load management
- Test instrumentation and controls
- Emissions measurement
- Installation and setup
- Test operations, measurement and analysis
- Maintenance

### APPLICATIONS

- Light, medium and heavy duty vehicles
- Off-highway, agriculture and construction equipment
- Off-road vehicles and power sports
- Generator sets
- Battery and start systems
- Machinery
- HVAC systems
- Small engines and hand-helds
- Components
- Locomotive
- Marine

### CONTACT US

To request a quote or discuss your testing needs in detail, please call [+01 844 730 4175](tel:+18447304175) or email [us.transportation@sgs.com](mailto:us.transportation@sgs.com).



# SGS UNIQUE TESTING SOLUTIONS

When your testing is performed at an SGS laboratory, rest assured that the results will be of the highest quality in the industry. Our laboratories are used by automotive and engine manufacturers, suppliers, the petrol chemical industry, the research community and government agencies among others. We offer vehicle procurement, engineering services, control system calibration, data analysis and project management to meet specific customer needs.

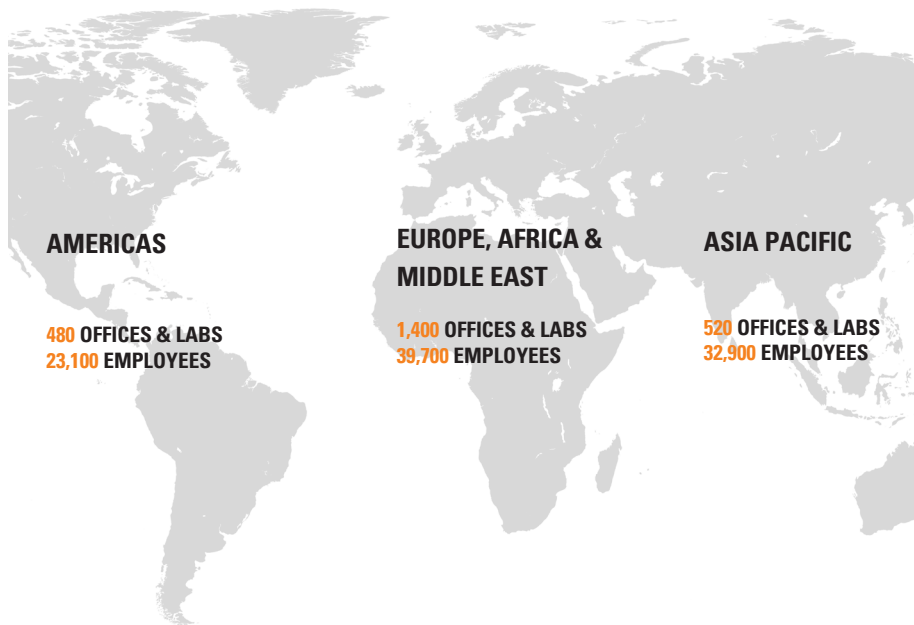


## UNIQUE OFFERINGS

- We offer an array of testing services from cold start testing, thermal performance profiling and cold mechanical development to current product troubleshooting, cold procedure verification and engine testing for emissions, performance, durability and aging
- Our highly skilled and experienced staff across our network can help with anything from instrumentation, installation and setup, and test operations to maintenance and analysis
- We offer turnkey test cell and facility design/build program management, test equipment and test automation systems

# SGS GLOBAL & LOCAL

**95,000 EMPLOYEES | 2,400 OFFICES & LABS AROUND THE WORLD**



## VARIABLE ALTITUDE ENGINE & VEHICLE TESTING

Aurora, CO

## TEST CELL SOLUTIONS, SOFTWARE AND VARIABLE HORSEPOWER ENGINE AND VEHICLE TESTING

Columbus, IN

## FUEL & COMPONENT SYSTEMS TESTING

Lapeer, MI

## MILEAGE ACCUMULATION CENTER

Jackson, MI

## ROCKY MOUNTAIN HIGH ALTITUDE TEST CENTER

Empire, CO

## CATALYST AGING & COMPONENT TESTING SERVICES

Taylor, MI

## COMPONENT TESTING & ENGINEERING SERVICES

Troy, MI

# SGS

WHEN YOU NEED TO BE SURE