

# Testing Services

## Small Engine EPA and CARB Emissions Certifications Testing



ESW America, a division of ESW Group, is a leading independent emissions testing company based in Montgomeryville, PA. Our state-of-the-art small engine testing facility is equipped to perform a wide variety of EPA and CARB compliant services. Our facility is staffed by an experienced team of highly skilled engineers, technicians, and fabricators. With a combined total of over 30 years experience, ESW America performs EPA and CARB emissions certification testing, durability testing, performance testing, OBD, and fuel economy testing for a wide variety of engines and chassis.

### ESW America Advantages

- Multiple test cells for durability and OBD certification testing
- Multiple engine dynamometers (up to 200 HP)
- CFR compliant to meet any EPA and CARB protocols
- EPA and CARB recognized facility for performing engine emissions verification test protocols
- Non-road SI/CI engines (NRSI/NRCI) testing: off-road utility vehicles (UTV), gensets, and recreational (snowmobiles, jet ski, ATV) engines
- Small off-road engines (SORE) testing: lawn & garden mowers, snow blowers, hand-held equipment, portable gensets, engines
- Computer integrated dynamometer controls

### Emissions Capabilities

- Emission test cycles: any multi-mode steady cycle
- Gaseous emissions (Horiba MEXA 7200 D, 9200 & CAI)
- Durability tests: automated catalyst de-greening cycles, steady-state, and transient engine break-in
- Emissions measurement: Horiba Bench
- Emissions measurement: NO<sub>x</sub>, NO<sub>2</sub>, CO, CO<sub>2</sub>, THC, CH<sub>4</sub>
- Emissions measurement: Continuous/bag emission sampling

### Small Off-Road Engine (SORE) Testing

- Certification tests for EPA and CARB
- Calibration and developmental testing
- Applications: lawn & garden mowers, snow blowers, hand-held equipment, and portable gensets



### SMALL ENGINE TESTING

#### 200 HP Dynamometer

Engine calibration, certification and development

Maximum speed 8,000 rpm

Horiba emissions bench / bag sampling

CFR compliant (part 89 and 90)

Diesel, gasoline, CNG and dual fuel capabilities

Applications: off-road utility vehicles, gensets and recreational (snowmobiles, jet ski, ATV) engines

#### 20 HP Dynamometer

Magtrol 25 HP Eddy current

Maximum speed 8,000 rpm

10" CVS dilution tunnel 400 CFM

#### 5 HP Dynamometer

Magtrol 5 HP powder-brake

Maximum speed 25,000 rpm

10" CVS dilution tunnel 400 CFM



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