



## Vehicle Emissions Testing

Vipac Engineers & Scientists' new Emissions Test Cell incorporates the only "fully transient" heavy duty chassis dynamometer in Australia capable of testing a full range of vehicles from passenger cars through to prime movers.

Tests are carried out over a variety of internationally recognised Vehicle Emission & Fuel Consumption Standards (generally applied to light-duty vehicles – e.g. ADR79/01 & 81/01, Euro III/IV, IM240, EEC98/69, FTP, JAS). It offers the added flexibility of being able to undertake customised development testing, as well as research projects on heavy duty trucks and buses.



## Vehicle Emissions Testing

### Services

- Product Certification
- Back to Back Testing
- Fuel Consumption Testing
- Research & Development
- Calibration

### Test Standards

- AS (Australian Standards)
- SAE
- Australia Design Rules (ADR)
- UNEEC



Vipac Cold Start Chamber (Vehicle courtesy of Crossover Car Conversions)



Vipac Heavy and Light Duty Transient Chassis Dynamometer

### CELL 1

Vipac Heavy Duty 4WD chassis dynamometer is a fully transient facility capable of undertaking a variety of standard certification and support Research & Development testing. The dynamometer guarantees total road simulation under both acceleration and deceleration conditions.

- Twin 48" roller design (FWD, RWD, AWD)
- Complies with all worldwide light-duty emissions and fuel consumption standards
- Full road load inertia simulation for heavy-duty vehicles up to 25,000Kg equivalent inertia
- Heavy duty mode maximum speed of 120Km/h
- Light duty mode maximum speed of 160Km/h
- Up to 600kW of maximum load absorption

### CELL 2

Vipac Light Duty 2WD chassis dynamometer is capable of undertaking a variety of standard certification and support Research & development testing. The facility is also set-up to support climatic conditions, for example to satisfy Euro III Type VI cold start certification testing.

- Twin 20" cradle type dynamometer (Froude-Consine CD60 2WD)
- Complies with all worldwide light-duty emissions and fuel consumption standards
- Full road load inertia simulation for light duty vehicles up to 3,500Kg GVW
- Maximum speed of 160Km/h
- Maximum load absorption of 60kW
- Environmental temperature control between -10°C and +40°C

State of the art Horiba and Signal emissions analysis benches are available in both CELL 1 and CELL 2 to support Constant Volume Sampling (CVS) certification work and Real Time RAW/DILUTE analysis.