



## Engine Emissions Testing

Signet Monitoring and Analysis Inc. provides unbiased, third-party, NOx emissions testing services.

Our testing units are equipped with Horiba Continuous Emissions Monitoring System (CEMS) flue gas analyzers. The CEMS provides the means for NOx testing that complies with all Canadian Federal and Provincial Regulatory NOx testing protocols.

One of the key differentiators between Signet and other emissions testing companies, aside from using a mobile CEMS unit, is the use of the Windrock

6400 Performance Analyzer® to measure horsepower output and numerous other engine parameters. With the Windrock analyzer the horsepower is measured rather than estimated or calculated.

It is our position that if the horsepower is estimated, the NOx mass flow calculation has a higher degree of uncertainty. Modelling software, horsepower predictors and fuel-gas flowmeters all make assumptions related to engine health, tuning, compressor losses and efficiencies.

Signet's portable emissions testing equipment is truck-mounted rather than carried in a more typical trailer. Our emissions vehicle is a safe and reliable method of accessing remote field locations compared to a trailer; which is impractical when inclement weather and rough terrain are dominant factors.

Our trained emissions technicians are knowledgeable and highly experienced in all aspects of gas-fired engine tuning, balancing and emissions measurement and analysis.

It is our primary goal to work directly with our clients and their operations staff to ensure that their engines are meeting their emissions targets. Our business is emissions testing, we are not vendors of engine or emissions control systems and do not provide installation services. Our focus is engine performance and validating the efficiency and compliance levels of your equipment to facilitate your regulatory reporting needs.



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