

ANNEX XII

DEFINITIONS

Exhaust gas analyser	<p>An exhaust gas analyser is a measuring instrument that serves to determine the volume fractions of specified components of the exhaust gas of a motor vehicle engine with spark ignition at the moisture level of the sample analysed.</p> <p>These gas components are carbon monoxide (CO), carbon dioxide (CO₂), oxygen (O₂) and hydrocarbons (HC).</p> <p>The content of hydrocarbons has to be expressed as concentration of n-hexane (C₆H₁₄), measured with near-infrared absorption techniques.</p> <p>The volume fractions of the gas components are expressed as a percentage (% vol) for CO, CO₂ and O₂ and in parts per million (ppm vol) for HC.</p> <p>Moreover, an exhaust gas analyser calculates the lambda value from the volume fractions of the components of the exhaust gas.</p>
Lambda	<p>Lambda is a dimensionless value representative of the burning efficiency of an engine in terms of air/fuel ratio in the exhaust gases. It is determined with a reference standardised formula.</p>