



Análisis comparativo del desempeño y emisiones de un motor diesel de gran capacidad operando bajo dos escenarios: trabajo en ruta activa y trabajo en banco [

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text (article)

Analítica

Several tests were carried out on a 1,640 kW (2,200 hp) diesel engine operating in two different sets of conditions: a bench test and route test (when the engine was located on a mining truck). The engine was mounted on a dynamometer for the first set of conditions. The parameters measured were break torque, cylinder and air inlet temperatures, exhaust gas temperature and both fuel consumption and airflow. Gas emissions were also recorded. The engine operated during the first phase of the study according to a test protocol allowing real work conditions to be simulated during a typical cycle present on the operation route. Afterwards, the mining truck was instrumented for the second set of working conditions and the corresponding monitoring work was done while the truck was working on the route assigned by the truck's operator. A comparative analysis was then made of the results obtained in the two sets of working conditions. This analysis led to observing that the results obtained in the two tests had a very similar pattern and thus led to validating the results obtained in the bench test

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