Research regarding determination of gaseous and solid emissions and PM10 imission

Goal of the project:
Determination of gaseous and solid emission pollutants' concentrations from indicated (selected) exhaust sources as well as PM10 immission from the vicinity all concerning the unit area Continental Automotive Products SRL in Timisoara.

Short description of the project:
The product of the research activity for the client is the data report. The quality of this report is given by the quality of the information it contains. For this reason, the precision of the experimental data is an important requirement. The accuracy of the report is based on this precision. The instruments used for measurements are: TESTA FID 123, analyzer 3180 GMH manometer, STROHLEIN STE4, LSV3 analyzer and TESTO 350XL analyzer, all working according EU standardized methods.

Project implemented by:
LaCIEDiN - Laboratory for Fuel Analyses, Ecological Investigations and Pollutant Dispersion

Main activities:
Measurements in situ/phase, results processing, data interpretation and preparation of the analysis bulletin/report.

Results:
•CO, NO_2, SO (emission) concentrations;
•Particles (emission) concentrations;
•VOC from gaseous effluent indicated as TOC (emission) concentrations;
•PM10 (imission), as air quality indicator in the proximate vicinity.

Fields of interest:
The LaCIEDiN-Laboratory acts according standard SR EN ISO/CEI 17025:2005 and it is RENAR accredited with certificate no. LI 787 from 22.06.2009.

Implementation period:
January 2012- January 2013

Financed through/by:
SC CONTINENTAL AUTOMOTIVE PRODUCTS SRL

Research team:
Prof. Dr. Eng. Ioana Ionel, Assist. Prof. Dr. Eng. Francisc Popescu, Dr. Eng. Nicolae Lontis, Assist. Prof. Dr. Eng. Luisa Dungan, Assist. Dr. Eng. Gavrila Trif – Tordai

Research centre:
Research Centre for Thermal Machines and Equipments, Transportation and Environmental Pollution Control

Applicability and transferability of the results:
On customer request, the results are confidential.

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