

LABORATORY OF AUTOMOTIVE DIAGNOSTICS

Faculty of Engineering, Research Centre of Vehicle Industry

HEAD OF LABORATORY

Dr. István Lakatos PhD
university associate professor

CONTACT

Address: H-9026 Győr, Egyetem tér 1.
Building: Laboratory Building L 2/11
Telephone: +36 96 503-495
E-mail: lakatos@sze.hu
Web: <http://jkk.sze.hu>



LABORATORY PROFILE

- Year of foundation: 1974
- The Laboratory of Automotive Diagnostics was designed to carry out diagnostic tests (without opening / decoupling) on vehicles (principally automobiles and light commercial vehicles)
- References: Kisalföld Volán PLC, Energotest Ltd., E-VAN testing, TÁMOP programmes

Equipment and software of the laboratory

ROLLER BRAKE TEST BENCH (RBT)

- Year of purchase: 1976 (renewed in 2007)
- Automobiles, light commercial vehicles
- The RBT (Roller Brake Tester) allows for testing the performance of the brake system of a vehicle under stationary and controlled conditions
- $P_{max} = 160 \text{ kW}$, $v_{max} = 160 \text{ km/h}$

FUEL CONSUMPTION METER (PETROL, DIESEL OIL, BIOETHANOL)

- Year of purchase: 2007
- In the case of measurements on the stationary roller brake test bench it is suitable for fuel flow consumption measurement with petrol, diesel oil or bioethanol-powered vehicles
- Accuracy 0,002 l



GAS ANALYSER (4 GAS & LAMBDA) DIESEL SMOKE METER

- Year of purchase: 2008
- The device can be utilized for the supervision of petrol, diesel and LPG-powered vehicles



INDICATOR SPARK PLUG

- Year of purchase: 2011
- The indicator spark plug enables the pressure ratio developed in the cylinders of petrol-powered vehicles with certain parameters to be tested cyclically

ROLLER BRAKE TESTER BENCH

- Year of purchase: 1997
- It is used to calculate the braking efforts and efficiencies of automobiles
- Brake efficiency tests can be done on the basis of 'EFT' (Uniform Brake Testing Technology – Hungarian standards)



SHOCK ABSORBER TEST BENCH

- Year of purchase: 2006
- This device is used to test shock absorbers in vehicles
- Fulfils EUSAMA requirements

OIL ANALYSIS EQUIPMENT

- Year of purchase: 2001
- Testing hydraulic systems (pressure, temperature, volume flow rate) and the contamination of various types of lubricants and fuel (rigid particle content)



CONTACT PERSON: Head of laboratory

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