# LABORATORY OF AUTOMOTIVE DIAGNOSTICS

Faculty of Engineering, Research Centre of Vehicle Industry

### **HEAD OF LABORATORY**

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#### CONTACT

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## 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 I



# 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





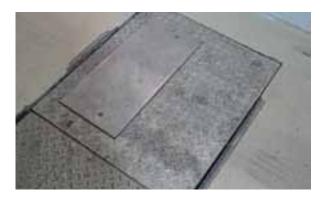
### INDICATOR SPARK PLUG

- 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)





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