



**OUR MISSION:  
SPEED UP YOUR R&D PROJECTS**

**YOUR PARTNER FOR THE  
DEVELOPMENT OF:**

- ✓ **POWERTRAINS**
- ✓ **TRANSMISSIONS**
- ✓ **LUBRICANTS**
- ✓ **TEST RIGS**
- ✓ **FLUID  
CONDITIONING  
UNITS**

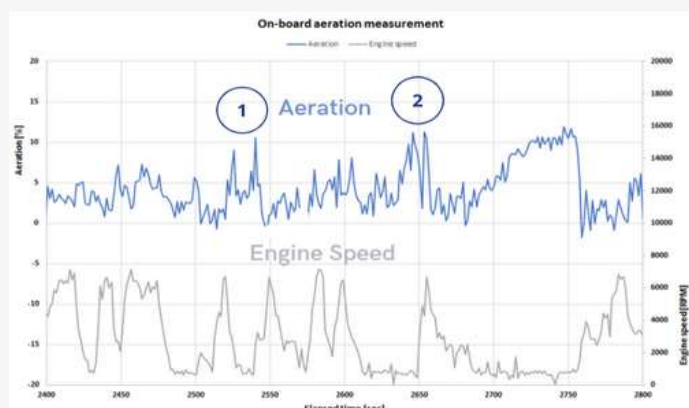
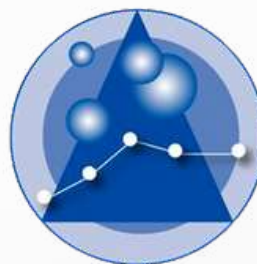
**OUR PRODUCT RANGE 2024**

# AIR-X FOR OIL AERATION MEASUREMENT



SUPER COMPACT AIR-X

- Real-time results
- 0 -100% measuring range
- Self-calibration
- On-board model available
- A worldwide reference in the automotive and aeronautic industries





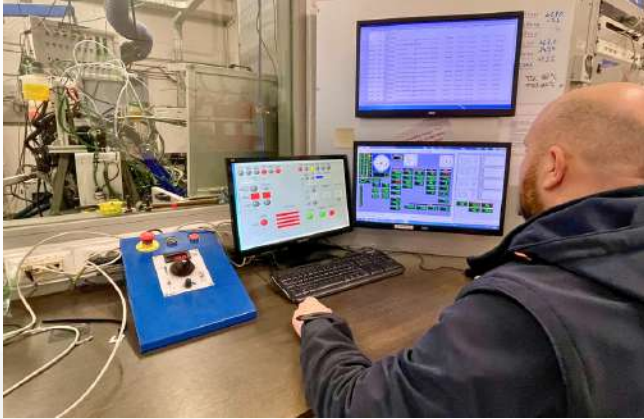
# INNOVATIVE TOOLS FOR THE DEVELOPMENT OF POWERTRAINS AND TRANSMISSIONS



- Optimisation of lubrication and cooling
- Impact of oil aeration
- Real-time Wear measurement
- Friction losses measurement
- Development of de-aeration systems



# POWERTRAIN TEST SERVICES

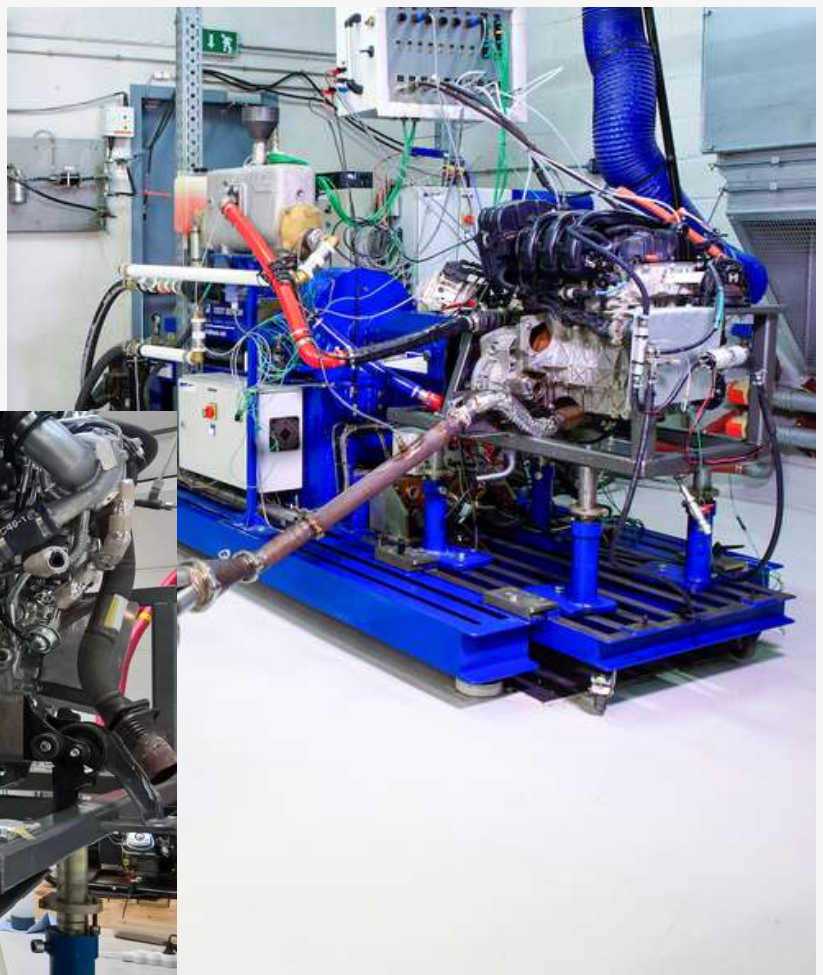


Real-time technologies for measurement of:

- Wear
- Friction losses
- Oil consumption
- Fuel dilution
- Oil aeration



5 test cells equipped with  
radiotracer tools for  
real-time measurements.





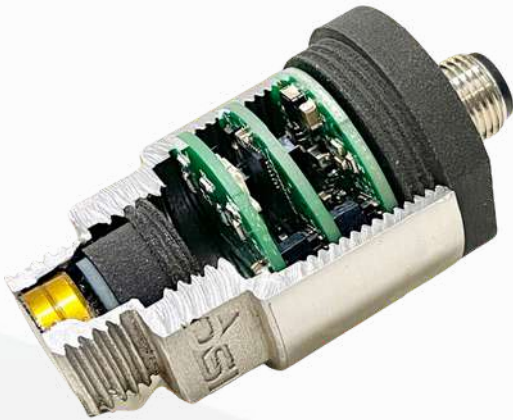
# DEVELOPMENT OF TEST RIGS AND FLUID CONDITIONING SYSTEMS



- Taylor made Test Rigs & Benches
- Oil and water conditioning units
- Oil Aeration Generators
- Temperature range up to 300°C
- Up to 400L/min. / 20 bars
- PLC controlled with HMI
- EC and US certification



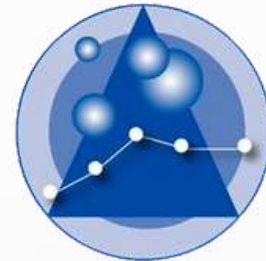
# SMART SENSORS IOT SOLUTIONS FOR PREVENTIVE MAINTENANCE



DSI INNOVATIVE WEAR PROBE  
1- 1000 MICRONS

Smart sensors for oil quality control:

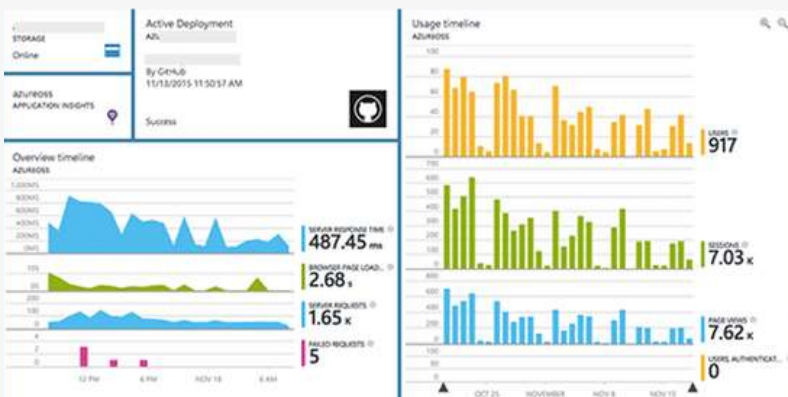
- Viscosity
- Contamination by fuel - water - soot - wear debris
- Dielectric constant
- Resistivity
- Aeration
- TAN / TBN



Off-Road and mining vehicles



Industrial transmissions



Dashboard for real-time process monitoring and trends



Power generators



## DSI PREMISES



Engineering CAD work stations



Production area equipped with machining tools - 3D print



Radiochemistry laboratory



Engine & Lubricant Test Center



Electronics & Automation lab

## SOME REFERENCES





## CONTACT



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- SALES & RENT OF EQUIPMENT
- DEVELOPMENT OF TURN-KEY SOLUTIONS
- SERVICE MEASUREMENT AT OUR TEST CENTER
- SERVICE MEASUREMENT AT YOUR FACILITY
- R&D PARTNERSHIPS
- TECHNICAL ASSISTANCE
- TRAINING
- AFTER SALES SERVICES



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