



VALVETRAIN – CYLINDER HEAD TEST STAND

TEST RIG FOR FRICTION LOSSES
MEASUREMENT

Innovative test rigs to study friction, lubrication and wear on
valvetrains



Valvetrain - Cylinder head test stand

Our test center in Belgium is equipped with
such test rig.

Feel free to contact us if you need to test
your engine parts or lubricants



CAPABILITIES

- ⚙ Investigation of the impact of different lubricants on **frictional losses**, allows for **quick distinction** and **benchmark** between lubricants and/or additives
- ⚙ Study of **new materials** (especially hard coatings such as DLC) to reduce **friction and wear**. Continuous and real-time wear **measurement based** on the RadioNuclide Technique (with our TLA)
- ⚙ **Benchmark** of valvetrains and cylinder heads
- ⚙ Simultaneously **friction and wear measurement** to study **running-in and operating behaviors**
- ⚙ Very slow and idle driving speed to study friction and wear on **critical phases** such as start-up

UPGRADABILITY



- ✓ Possibility to feed the tested components with **aerated oil** to study **oil aeration effects** (with our Air-Mix)
- ✓ Possibility to enclose tested components in a **climatic chamber**
- ✓ Possibility to **measure valve motion** during testing with **high-speed laser vibrometers**
- ✓ The **test bench can be adapted to other parts**: oil pumps, water pumps, chain drives, camshafts, crankshafts, fuel injection systems, etc.



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