BASF's Catalysts Division

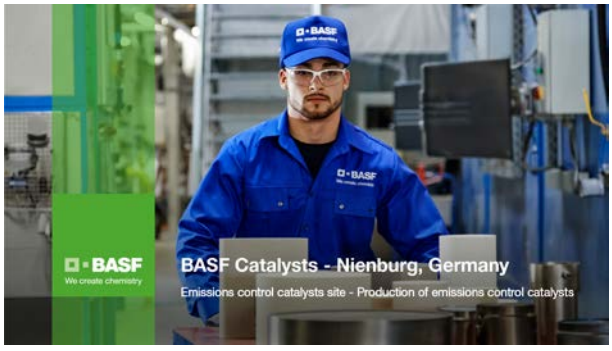
BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials.

The Global Leader in Catalysis

By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

(01) Emissions control catalysts site Nienburg - Production of emissions control catalysts

12/08/2016 / 04:56 / direct sound / Footage



At the Nienburg emissions control catalysts site, BASF produces emissions control catalysts for gasoline- and diesel-powered cars, trucks, buses, motorcycles, construction equipment and other vehicles.

However, the product portfolio also comprises catalytic soot (particulate) filters such as the EMPROTM Four-Way Conversion Catalyst (FWCTM) that not only converts carbon monoxide, unburned hydrocarbons and nitrogen oxide into uncritical water, nitrogen and carbon dioxide but also removes harmful particulate matter. The product helps automakers comply with the strict emissions regulations. In addition, BASF employees are working in a sample manufacturing lab at the site to develop even more advanced technologies for catalytic exhaust conversion.

(02) Engine Lab Hannover - Catalysts testing

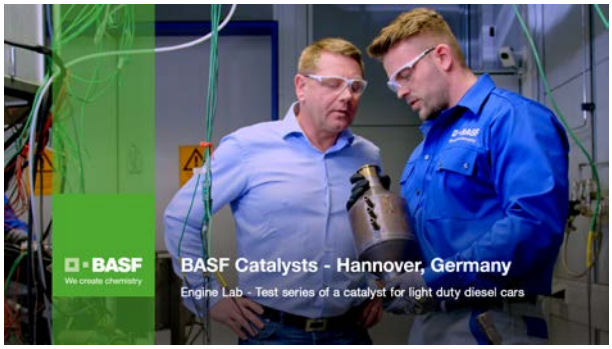
12/07/2016 / 06:24 / direct sound / Footage

The Hannover site is the European headquarters of the emissions control catalysts business unit, carrying out research, product development, sales, and other strategic operations. In the Hannover Engine Lab future catalyst technologies are tested on their functionality and durability under real life conditions.

Test Engineers and Technicians are setting up a catalyst in the exhaust system of a test vehicle and connect measurement ports. After that, the test vehicle is installed on a chassis dynamometer for an emissions test.

(03) Engine Lab Hannover - Test series of a catalyst for diesel passenger cars

12/07/2016 / 03:30 / direct sound / Footage

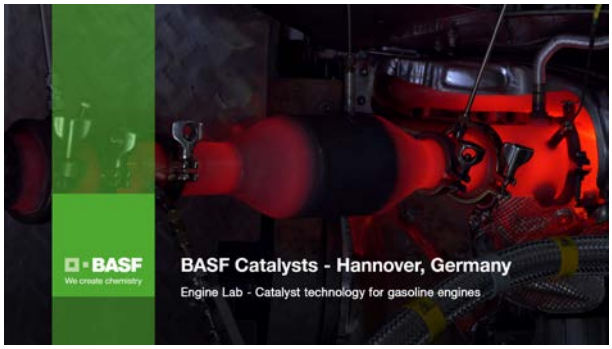


Engine test bed for diesel passenger cars: On engine test beds catalysts get stressed under different operating conditions. In the Hannover Engine Lab future catalyst technologies are tested on their functionality and durability under real life conditions.

For the test, the catalyst is fitted with thermocouples for temperature measurements inside the catalyst. The colleagues monitor the results of the emissions test in front of the computer. After the ending of the emissions test, the catalyst is checked visually and the results are being discussed.

(04) Engine Lab Hannover - Catalyst technology for gasoline engines

12/07/2016 / 03:04 / direct sound / Footage



Engine test bed for light duty cars with gasoline engine: The Technician installs a catalyst at the engine test bed right before the exhaust test. In the Hannover Engine Lab future catalyst technologies are tested on their functionality and durability under real life conditions.

During the durability tests the catalyst can reach a temperature of 1,000° C and above. After testing, the catalyst is checked visually.

(05) Engine Lab Hannover - Test of catalysts systems for trucks

12/07/2016 / 03:46 / direct sound / Footage

Engine test bed for trucks: In addition to light duty exhaust gas aftertreatment systems, also catalysts systems for trucks are being tested in the Hannover Engine Lab in order to check functionality and durability.

One of those is being installed by the Technicians. After installation, the catalyst system will be evaluated by an emissions test.