

Press Release

Voith Turbo GmbH & Co. KG
Alexanderstraße 2
89522 Heidenheim, Germany
Tel. +49 7321 37-2802
Fax +49 7321 37-7110
www.voith.com

2015-07-02

World-class mainline locomotives rely on Voith components

A brand new fleet of 32 TG16M series double locomotives, currently being tested in Russia, are all fitted with advanced components manufactured and supplied by Voith. All locomotives are fitted with two Voith component sets, consisting of an L 530 breU2 turbo transmission, a cooling system, as well as highly-flexible couplings from the BR 152 and BR 199 range.

For this major order, Voith has equipped its newly developed cooling system with 'SilentVent' high-performance fans and weight and space-saving double block radiators. These parts allow maximum cooling output within the specified small installation space and ensure high power density.

The highly-flexible coupling in the driveline shifts the critical natural frequencies below the operating speed. This protects the system's components against critical vibrations and increases the service life and the availability of the driveline.

At the core of the driveline is the adaptable L 530 breU2 turbo transmission. In combination with the Voith Turbo drive control system and a CAN-Bus interface, it ensures high traction and optimal efficiency across the entire output range of 1 000 kW to 1 700 kW.

With considerable investment being placed in railway infrastructure upgrades in South Africa, Voith is well-positioned to add substantial value to this market with its tried-and-trusted, and internationally-recognised product offering.

"Voith will actively contribute to the development of regional industry by localising its manufacturing and sourcing of components," states Themba Makoti, Projects Co-ordinator for the local rail division.

Promising progress being made on the Russian project

The Russian locomotives will undergo a number of tests and certifications over a six-month period. The test runs will be used for examining speeds and train loads before the locomotives enter regular service.

Voith Turbo GmbH & Co. KG
Alexanderstraße 2
89522 Heidenheim, Germany
Tel. +49 7321 37-2802
Fax +49 7321 37-7110
www.voith.com

In October 2014, the double locomotive successfully passed the static and dynamic inspection in Russia. During the static inspection, Voith experts checked the installation space and all interfaces and installed the transmission. This was immediately followed by the dynamic inspection, during which the locomotive successfully completed its first test trip.

Page 2 of 2

As soon as all dynamic tests have been successfully completed, the first locomotives will be in regular operation from July 2015, when they will mainly transport raw materials such as coal. Due to the high gradient of up to three percent, the trains consist of no more than 20 wagons.

Voith Turbo, a Group Division of Voith GmbH, is a specialist for intelligent drive solutions. Customers from highly diverse industries such as oil and gas, energy, mining and metal processing, ship technology, rail and commercial vehicles rely on advanced technologies from Voith Turbo.

Voith sets standards in the markets energy, oil & gas, paper, raw materials and transportation & automotive. Founded in 1867, Voith employs more than 39,000 people, generates € 5.3 billion in sales, operates in about 50 countries around the world and is today one of the largest family-owned companies in Europe.

Contact:

Terry-Lynn McIntosh
Marketing Coordinator
Telephone: +27 11 418 4000
Terry.McIntosh@voith.com