

Crawler Tractor

PR 764
Litronic®

Job Report

Coal Open Pit Mine
Company Severočeské Doly A.S.
Czech Republic



LIEBHERR

Situation

Severočeské Doly A.S. is the largest producer of brown coal in the Czech Republic. The company was established by the Czech National Property Fund in 1994 by merging two major coal producers - the Bílina Mines and the Nástup Tušimice Mines. The company's line of business is mining, processing and selling brown coal and its by-products. The company's domestic market share in 2008 was 46.87 % at an annual production of 22 mio. tons of coal.



Task

To guarantee a capacity of 14 mio. tons of lignite per year, the Nástup Tušimice Mines needs to prepare 48 mio m³ overburden material by loosening and stripping soil, claiming it with bucket wheeled excavators and removing it via assembly lines to the disposal areas. At step one of this work, the customer uses crawler dozers with an operating weight of 50 tons, which run for several shifts nonstop to loosen the heavy material and push it towards to the large excavators.



Solution

During a product presentation, the customer's attention became focused on Liebherr's large crawler dozers and it was offered to test a machine for a few weeks. The dozer with U-blade and single shank ripper was delivered and tested in March 2008.

Afterwards the customer was sure that due to its high ground clearance, its low centre of gravity and the efficient travel drive the PR 764 Litronic would reach an outstanding production performance in open cast coal mining.

Concerning the dozer's efficiency, the customer could report an obvious saving of fuel (up to 8 l/h) compared to a competitive machine he had used so far. Assuming 3,000 operation hours, the PR 764 Litronic offers savings up to 20,000 Euros per year.

Also outstanding is the reduction of CO₂ emission. Due to the lower fuel consumption, the CO₂ emission is being reduced up to 16%.

Severočeské Doly A.S. decided to buy a new PR 764 Litronic that same year, which was delivered to Doly Nástup Tušimice Mine in October.

In the meantime the dozer has been running for 1,520 hours and the driver proudly stated that concerning power, view and safety the PR 764 Litronic fully satisfies his expectations.

Technical Data

PR 764 Litronic

Engine _____ Liebherr D 9508 A7
Engine output _____ 310 kW / 420 HP
Operating weight _____ 51.950 kg / 114,530 lb

Attachment

PR 764 Litronic

Track pads _____ 710 mm / 28"
U-blade _____ 17,0 m³ / 22.23 yd³
Ripper 1 shank