

Job Report

PR 776

Litronic®

The Liebherr PR 776
in operation at Chernigovets mine,
in Kuzbass, Siberia, Russia.



LIEBHERR



Situation

The SDS-Coal Holding Company was established in 2006 as an industrial holding company of the Siberian Business Union for coal extraction and processing. The company ranks third in terms of coal production in Russia. At the end of 2016, the joint output of SDS-Coal subsidiaries reached 30,6 million tons of coal, hiring over 10 000 employees. Being one of the largest country's coal exporters, the company supplies high grade energy and coking coal to the Russian and foreign markets. The "Chernigovskiy" coal open pit of SDS is located in the north of the Kemerovo region on the territory of the Kedrovo-Krokhalevsky coal field. In 2015 it marked its 50th anniversary. The reserves of coal, which are subject to open-cast mining, are 220 million tons. According to experts, it should be enough for 30 years of production. The current production output is 6.5 million tons of coal per year.

Task

Dozer are used for managing the dump area, road construction and repairs as well as cleaning up of sites and roads. To strengthen the fleet of vehicles involved in the formation of dumps in the section, the management of SDS decided to purchase a new 70 ton bulldozer. Focus for the purchase has been on highest performance respectively production at lowest fuel consumption to reduce the overall cost per ton. The dozer also needs the design and maintenance program to allow for 24/7 continuous operation.

Technical Data

Engine	Liebherr D 9512 A7
Engine output according to ISO 9249 (FWD/REV)	440 / 565 kW / 598 / 768 HP
Operating weight	73 / 80 tons
Blade capacity	18.5 m ³ / 24.2 yd ³

Solution

On March 25, 2016, the 73-ton Liebherr dozer type PR 776 with a 18.5 m³ semi-U-blade and a single-shank ripper was delivered to the site. The bulldozer is equipped with a 12-cylinder Liebherr diesel engine with a nominal power of 565 kW (768 hp). For operation in the harsh environment, the dozer was equipped with a special climate package, which makes it possible to operate at temperatures below -40 °C. To ensure safe maintenance, the dozer is also equipped with catwalks.

Summary

After 24 months of operation on 25.03.2018 the dozer had more than 15,080 operating hours on the hour meter or an average operation of 20,7 operation hours every day since the dozer has commenced operation. The average fuel consumption over this period has been recorded with 42 litres/hour. Dozer performance, low fuel consumption, increased traction, comfortable handling and smooth travelling, efficient lighting quality for continuous operation of the machinery during nighttime, as well as lowest noise and vibration levels in the cabin were highly appreciated by operators.

Equipment

Semi-U-blade
Single-shank ripper
LED headlights
Rear view camera
Arctic temperature package

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