

# Job Report Mining Dozer

## **PR 776**

Litronic®

**The Liebherr PR 776  
Mining Dozer**  
in operation at Rix's Creek mine,  
Australia.



# **LIEBHERR**



### Situation

Rix's Creek is an open cut coal mine located 5 km north-west of Singleton in the state of New South Wales, Australia. The mine is owned by The Bloomfield Group, a 100 % Australian family-owned company. In operation since 1990, the mine continues to produce both thermal coal and high quality semi-soft coking coal for overseas and domestic customers. Rix's Creek currently produces about 1.5 million tonnes of coal each year and is working toward extending operations to 2038, boosting coal production annual output to reach about 4.5 million tonnes per year. The Bloomfield Group strives to invest the right resources in the right processes at the right time to achieve increased productivity with highest cost efficiency.

### Task

The aim was to study the performance of the PR 776 against its competitor machine, in the largest market in Australia for the current benchmark 70 tonne class mining dozer. This was enabled through the firm partnership between Liebherr and Rix's Creek mine: a well-established and reputable miner with extensive knowledge of the market and existing fleet of competitor machines.

### Technical Data

Engine	Liebherr D 9512 A7
Engine output according to ISO 9249 (FWD/REV)	440 kW / 565 kW / 598 / 768 HP
Operating weight	73 tonnes / 80 tons
Blade capacity	22 m <sup>3</sup> / 28.8 yd <sup>3</sup>

### Solution

The PR 776\* undertook all typical mine site duties including managing the dump area, road repairs and construction, levelling off shot drill pads, cleaning up under the excavator's floor, and ripping and pushing partings and coal.

Positive operator feedback was received for the PR 776's Integrated ROPS/FOPS system in the cab structure (providing the operator with an uninterrupted view); it also provides excellent forward vision including behind the blade with exhaust stacks, and lift cylinders positioned behind the A pillars. The standard, factory-fitted 360-degree LED illumination concept provides increased safety and round-the-clock productivity. The hydrostatic drive system at full power on both tracks, combined with intuitive joystick, allows for precise movements, offers a high level of safety and confidence to work: even on slopes. The tiltable cabin allows for easy access to the hydrostatic drive system, a hinged access to cooling systems for quick and easy cleaning and convenient access to service areas via catwalk with handrails.

LIDAT and local measurements confirm fuel consumption across the entire field trial was only 47 litres/hour – over 20 % less than its competitor, with comparable performance.

\*fitted with all required Australian mine site safety specifications.

### Summary

Over the trial period, based on the key performance indicators (Performance, Economy, Reliability, Service, Comfort, Safety), the Liebherr PR 776 was capable of exceeding customer expectations and preliminary results demonstrated its potential value to any mining operation. To conclude, the Liebherr PR 776 performed comparably and, in some applications, more favourably, than the current benchmark competitor in terms of BCM per hour, while the lower fuel consumption indicated that a reduced cost per tonne was achievable. From the results taken in the trial period, the Liebherr PR 776 will be a strong contender in this market and will add value for its owner.

### Equipment

U Blade with dual tilt
Single shank ripper
LED headlights
Work platform
Fire suppression system
Touchscreen display with integrated rear view camera
Eco mode
Automatic engine speed reduction

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