

# Job Report: Crawler Excavator

## **R 945**

Litronic®

The Liebherr excavator  
R 945 Generation 8  
used by Lorban TP in Limont-Fontaine



# **LIEBHERR**



### **Situation**

The Lorban company has been working for 50 years in the construction of drinking water networks, sanitation, public works, road infrastructures, asbestos disposal from buildings and demolition. Lorban TP is a family-run company which was founded in 1972 by Robert Lorban, then taken over by Philippe Lorban in 2000. With its 300 employees, the

company meets the needs of individuals for land development and landscaping. Its machine fleet comprises several crawler excavators, wheeled excavators and wheel loaders from Liebherr. All machines are equipped with additional mechanical protection, thus minimising the mechanical wear of the subassemblies.

### Specific needs

Carrières du Bassin de la Sambre (C.B.S.) located in Limont-Fontaine manages the aggregates business of the CB Group and produces 600,000 tonnes of limestone aggregates annually for industry, buildings and public works. C.B.S. commissioned Lorban TP with the sourcing and extraction of limestone.

To fulfill this need, Lorban required a powerful machine with fast loading cycle times that could operate with a hydraulic hammer for the limestone extraction. In addition, this machine had to be equipped with a 2.5 m<sup>3</sup> bucket to load the stone into dump trucks.

### Solution

Lorban TP decided on the Liebherr R 945 Generation 8 crawler excavator. This 44.5 tonne machine, which replaces the company's 6th generation R 950 SME model, is part of a 7 strong line up of new excavators that range from 22 to 45 tonnes. Launched at Bauma in 2019 this new range optimises the operating performance, comfort, ergonomics and safety.

Jean-Pierre Deruelle is the only driver of the R 945 G8 having previously operated a 6th generation R 946 excavator, which has accrued many operating hours. Jean-Pierre loves the comfort of the cab and the smooth movements of the new G8 R 945. The LED lighting is stronger with a greater reach than the old halogen system and being able to control the brightness of the LED headlights with a single push of the joystick button is a new and very practical function for the operator and individuals working in the machine's vicinity. The dynamism and the stability of the excavator allow faster loading cycle times and thus increased production. The performance of the R 945 is higher than his old R 946 model with an engine power of 220 kW compared to 200 kW previously. This also results in a reduction in fuel consumption, which further adds to the company's satisfaction.





### Technical data

|                            |               |
|----------------------------|---------------|
| Operating weight           | 44,500 kg     |
| Engine power               | 220 kW/299 hp |
| Exhaust emissions standard | V             |

### Consumption

|               |                  |
|---------------|------------------|
| Fuel          | 28.5 litres/hour |
| Urea solution | 2.1 litres/hour  |

### Equipment

|                                |                                      |
|--------------------------------|--------------------------------------|
| Bucket capacity for quarrying  | 2.50 m <sup>3</sup> HDR (new design) |
| Mono boom                      | 6.15 m SME                           |
| Hydraulic quick coupler system | SWA 66                               |

### Efficiency

|   |                                 |
|---|---------------------------------|
| Loading time for articulated dump truck, 30 t class | 1 minute 20 seconds in 7 cycles |
| Duration of loading cycle                           | 14 to 15 seconds                |

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