

Job Report

Wheel Loader

L 550

Limestone Application
at Shawan Shunxing Mining Ltd
in Leshan City, China



LIEBHERR



The L 550 unloading crushed limestone



The L 550 handling limestone at Shawan Shunxing Mining Ltd

Situation

Shawan Shunxing Mining Ltd is a private company which was established in 2006 and is located in Leshan City, Sichuan province. The company employs 10 people and extracts high quality limestone, the most important raw material in cement production and used mainly in cement plants. The production

capacity of the company is up to 1.5 million m³ of limestone per year. There is a great demand for limestone for several major projects. One big customer of Shawan Shunxing Mining Ltd is the Desheng cement plant, which is the biggest cement plant in Sichuan.

Task

The main task of a wheel loader at Shawan Shunxing Mining Ltd is to load crushed limestone into the trucks which deliver the raw material to the cement plant. The Desheng cement plant is working 24 hours per day. As a result, Shawan Shunxing

Mining Ltd needs a reliable wheel loader which works in three shifts to keep the production high. The company has had a number of Chinese wheel loaders (with 12,000 kg tipping load) working at the job site.

Solution

In 2015 the Shawan Shunxing Mining Ltd purchased a Liebherr wheel loader L 550 to meet the requested demand and to match the production capacity. The L 550 has been working reliably for more than 1,200 operating hours. Due to the hydrostatic transmission technology from Liebherr wheel loaders, the customer's feedback is, that the L 550's working efficiency is much higher than that of the Chinese brand wheel loaders (with 12,000 kg tipping load). All components of Liebherr wheel loaders have been tested rigorously, in the most demanding of applications for prolonged periods of time. The fuel consumption of the L 550 is up to 40% lower per operating hour than the company's previous machines. In

comparison, the L 550 uses 10 liters of fuel less per operating hour than a comparable wheel loader from a Chinese brand in the same application. This is primarily because of the unique driveline concept from Liebherr and the intelligent installation of the diesel engine at the rear of the wheel loader allowing the engine to act as a natural counterweight. This allows higher tipping loads at lower operating weights. Operators are impressed with the longer service time intervals and also the unique access to all important daily maintenance points. Finally, the Liebherr wheel loader increases the customer's daily production capacity as well as the customer's profit thanks to the low fuel consumption.

Technical Data

Operating weight	17,350 kg
Tipping load, articulated	12,350 kg
Engine output	147 kW / 200 HP

Bucket capacity	3.2 m ³
Fuel consumption	14 litres / hour
Tyres	Techking 23.5-25R EM