

Job Report

Wheel Loader

L 566
Xpower®

Application in sand and gravel extraction
for RBS Kiesgewinnung GmbH & Co. KG
in Hamburg, Germany



LIEBHERR



L 566 XPower® transports raw gravel from the flushing fields to the sieving plants



L 566 XPower® loading a truck

Situation

RBS Kiesgewinnung GmbH & Co. KG was founded in 1912 and operates in the fields of dry and wet extraction of sand and gravel, road and path construction, as well as recycling. Today, the family company with a total of 37 employees is run by the fourth generation of the founding family.

Task

A suction dredge extracts the mixture of sand and gravel from the lake and then directly pumps it into the flushing field where it is deposited for drainage. Then wheel loaders are used to loosen and break out the highly compacted raw gravel, which is subsequently transported from the flushing fields to the sieving plants. After this, the bulk material is loaded from the sieving plant onto trucks. The wheel loaders travel long distances

Solution

RBS Kiesgewinnung GmbH & Co. KG have been relying on Liebherr products for over 30 years. The managing board was impressed by the outstanding test results of the L 576 XPower®, so the company expanded its wheel loader fleet in spring 2016 with three new Liebherr L 566 XPower® wheel loaders of emission stage IV/Tier 4f. The robust lift arm of the L 566 XPower® delivers a particularly large breaking force and is thus ideally suited for loosening and breaking out compacted raw gravel on the flushing field. In addition, the optimised buckets improve material penetration and allow for faster and more

RBS Kiesgewinnung GmbH & Co. KG is one of the largest sand and gravel suppliers in the greater area of Hamburg. With an annual output of 1.2 million tons of material, productivity is a top priority for the company.

on the plant premises, a single loading cycle for example covers a route of 200 to 300 meters. Overall, wheel loaders are in operation 240 days a year and up to 12 hours per day. During the development phase of the Liebherr-XPower wheel loaders, the Hamburg-based company conducted a test run with the prototype of the L 576 XPower®. During 5,500 hours of operation, it did not have a single failure.

efficient loading. Each XPower® wheel loader can process up to 3,000 tons of sand and gravel per day. The power-split Liebherr-XPower driveline has proven to be particularly robust and efficient. It combines a hydrostatic drive which is ideal for short loading cycles, with a mechanical drive which in turn shows its benefits on long routes. The management board is delighted by the low fuel consumption levels of the L 566 XPower®: Even under tough conditions, the new XPower® wheel loader uses up to 30 % less fuel per operating hour at full capacity than the previous model.

Technical Data

Operating weight	23,900 kg
Tipping load, articulated	15,900 kg
Engine output	200 kW/272 HP

Bucket capacity	4.2 m ³
Fuel consumption	16 litres/hour
Tyres	Michelin XHA2 L3 26.5R25EM

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