

# Wheel Loader

# L 580

## Job Report

The Liebherr wheel loader L 580 in use at Dalian Jinwan construction, in Dalian, China



# LIEBHERR

## Situation

Dalian Jinwan construction group is a private family-owned company, which has its main business in real estate, equipment renting and municipal projects, including sea reclamation.

In recent years the Dalian government announced several sea reclamation projects and many local contractors are focusing on this business. In general the sea reclamation projects are lasting several years with a great profit, which makes it very attractive for construction companies and encourages their investments in construction machinery and equipment.

In the past Dalian Jinwan construction group was just operating with Chinese brands of 3.0 m<sup>3</sup> wheel loaders. But, as the experience is showing, these machines are not as efficient as the application requires and the service life was less than 3 years.

Moreover fuel consumption as a key factor for sea reclamation applications requires a fuel-efficient machine which was not ensured by the performance of the Chinese brands.

Through all these facts Jinwan decided to buy a machine of a western construction machine manufacturer hoping this machine suits their needs in the sea application better.



## Task

After the first contact with Liebherr, Jinwan was impressed by the performance, reliability and low fuel consumption of the Liebherr wheel loader. After a two week trial, the customer was convinced by the features and benefits, the Liebherr wheel loader offered and decided to buy one unit L 580 for its sea reclamation project.

After one year of experience, the customer is highly satisfied. The main task for the wheel loader is to push the earth, stones and other bulk material into the sea to enlarge the usable land area for buildings, docks and even an airport. Sea reclamation is not a typical application for a wheel loader.

The uses of a wheel loader is more or less comparable to a bulldozer, but the working speed of the wheel loader is much faster and the machine is more efficient. The customer decided to use the wheel loaders for the sea reclamation jobs instead of other construction machines. Besides the efficiency, the customer also requires the wheel loader to work in a harsh environment for a long period time without any failure.

In addition, the wheel loader operator expects a safe and comfortable working environment.





## Solution

For this sea reclamation application, the Liebherr L 580 wheel loader was the perfect solution.

First, the Liebherr hydrostatic driveline can offer continuous tractive force control to prevent wheel spin. This is a key factor in sea reclamation applications to fulfill the task of pushing material into the sea. Moreover thanks to the tractive force control, the tyre wear is reduced by up to 25% and practically no brake wear occurs.

Secondly, the fuel consumption of the L 580 with 18 to 20 liters /hour, which is almost the same as of the Chinese brands 3.0 m<sup>3</sup> machines, is very low.

Thirdly, the working environment in the cab is very comfortable because the noise level is only 69 dB(A). Furthermore one single joystick to control the lift arm, the equipment and simultaneously movement lead to an improvement of the working efficiency. Also the low downtime of the machine due to minimal maintenance requirements is very satisfying for the customer.

Lastly, the unique cooling system which is located at the cleanest position of the wheel loader, directly behind the cab, keeps the cleaning intervals and therefore the downtime of the machine low. All in all the features and benefits of the Liebherr L 580 are very suitable for the customer to work efficient and profitable.

These Liebherr wheel loaders have already been working in the plant for approximately 1,200 operating hours.

## Technical Data

Operating weight	24,720 kg
Tipping load, articulated	18,000 kg
Engine output	209 kW / 284 HP

Bucket capacity	5.0 m <sup>3</sup>
Fuel consumption	18-20 litres / hour
Tyres	Triangle 26.5-25 EM





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