

Job Report Collahuasi

T 284 T 282 C

The Liebherr T 284 Mining Truck
At Collahuasi copper mine, Chile



LIEBHERR



The Liebherr T 284 mining truck operating at extreme heights in Chile, South America.

Key Facts

- South America's first T 284 joining a fleet of T 282 C trucks
- High altitude package allows superior production at challenging heights
- World's 3rd largest copper operation at 4,500 masl (14,763 ft)

Situation

Collahuasi is an open-pit copper mine located in the Tarapacá Region of Chile at an average 4,400 meters above sea level (14,700 feet). The mine produces over 579 thousand tonnes (640 thousand tons) of copper annually, making it the world's third largest copper mine, as of 2016. Collahuasi has an estimated 9,960 million tonnes (10,900,000 tons) of copper resources, which is one of the largest in the world. The extracted copper is sent to a concentrator plant, then the copper concentrate is transported to the Collahuasi Port Terminal to be shipped to market.

The main challenge of operating at the Collahuasi mine is the altitude, which reaches more than 4,800 meters (15,700 ft) in some sections of the mine. Due to the altitude, the equipment operating on site is known to suffer from loss of availability and slower operational performance. This causes a loss of production for the mine operations.

T 284 Joins Successful T 282 C

Collahuasi added the Liebherr T 284 to its fleet of seven T 282 C mining trucks. The T 284 was commissioned in the fall of 2017 and has proven to be an efficient addition to the fleet.

These trucks are equipped with a factory designed high altitude package to help mitigate the challenges of operating at extreme altitudes. The benefits of this package include the trucks maintaining performance and increased availability in the conditions.

The T 284 has a reduced frame weight and a high horsepower engine which carries a payload of 363 tonnes (400 tons). This leads to fast cycle times, which provides the customer with higher production rates.

Unprecedented Performance at Challenging Heights

Due to Liebherr's high altitude package, the T 284 has been operating as normal at these extreme heights and maintaining machine performance.

The design of the T 284 and the implementation of the high altitude package has helped Collahuasi maintain its production rates, which are similar to its previous year.