

Mining Truck

T 282 B

Job Report

Twelve Liebherr T 282 B mining trucks move 363 t (400 ton) of overburden in each load at Indonesian coal mine



LIEBHERR

Customer and Location

Located in East Kalimantan, PT Kaltim Prima Coal (KPC) is the world's largest exporter of thermal coal. PT Bumi Resources Tbk, whose major businesses are in oil, gas, mining and energy acquired KPC in 2003.

The KPC operation is 200 km (124 miles) north of Balikpapan, Indonesia and 120 km (75 miles) north of Samarinda, the regional capital of East Kalimantan. The mine site is situated 1 degree north of the Equator in a low rainforest with high heat, humidity and rainfall which is common to this area. Due to the remoteness of the operation, it is self contained and employs roughly 3,700 people, with approximately 11,500 additional contractors. Dedicated customer support is key to success in this region

Requirement

PT Bumi Resources set forth a plan to boost coal production to 42 million metric tonnes (46 million ton) in 2007. This plan was established to meet the ever increasing demand of coal from Japan, Taiwan, China, India and South Korea. In order to meet their plan, reliable, higher capacity haulage equipment with low maintenance costs were identified as a necessity. The haulage equipment would be utilized predominantly for hauling overburden due to the high strip ratios and be loaded by a fleet of Liebherr R 996 Litronic hydraulic excavators, in both front shovel and backhoe configurations.

Solution

Twelve Liebherr T 282 B diesel electric 363 t (400 ton) AC drive mining trucks were purchased by PT Bumi Resources to work in conjunction with the fleet of Liebherr R 996 Litronic hydraulic excavators at the KPC site. The truck purchase brought the total number of Liebherr machines operating in the region to 105. The Liebherr T 282 B mining trucks, equipped with the most powerful diesel engine available today, were purchased because of their large payload capacity and proven performance in some of the harshest mining operations around the world. The Liebherr T 282 B mining trucks are a major contributor to PT Bumi Resources reaching their planned yearly production increases.

Performance

The first Liebherr T 282 B mining truck was delivered to the KPC operation in August 2005. Since their arrival, the Liebherr T 282 B mining trucks have been operating with consistent reliability and minimal downtime with the oldest unit now having over 15,000 operating hours. The fleet operates 24 hours a day, 365 days a year, with an overall fleet availability averaging 92%.

With the higher payload capacity of 363 t (400 ton), the fleet of Liebherr T 282 B trucks move a large amount of overburden each day in conjunction with the existing fleets of 218 t and 282 t trucks, thus helping to fulfill the increased production requirements of the mine.

Another key factor in the success of the Liebherr T 282 B trucks is their low maintenance requirements. The AC drive system minimizes downtime and ensures consistent operating performance over conventional DC and mechanical drive trucks. The trucks are also equipped with the most powerful mining engine available, the MTU DD 20V 4000 (2722 kW) providing one of the best power to weight ratios available in the mining truck market today.

Day to day maintenance requirements are addressed by the Liebherr on site service support centre, PT Liebherr-Indonesia Perkasa. Maintenance is performed on a contract basis with initial operator and maintenance training provided by Liebherr Mining Equipment Co. factory service personnel.

The Liebherr T 282 B fleet is a major contributor to the successful increase in coal production for the KPC operation. Not only do the trucks provide higher production capacity but at a lower cost per tonne.

Technical Data

T 282 B

Engine model	MTU DD 20V 4000
Engine output per SAE J 1995	2722 kW / 3650 hp
Drive system	Siemens-Liebherr
Payload capacity	363 t / 400 ton
Maximum operating weight	592 t / 652 ton
Tire size	56/80 R63
Max speed	64 km/h / 40 mph



Liebherr Mining Equipment Co.

4100 Chestnut Avenue, Newport News, VA 23607, USA

☎ (757) 2 45 52 51, Fax (757) 9 28 87 55

www.liebherr.us, E-Mail: info.lme@liebherr.com