



Whitepaper

Ensuring Access to the Coal - Hauling up the hours at Indonesian Mine

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A coal mine in East Kalimantan (Indonesia) runs a fleet of eight Volvo excavators and 65 articulated haulers for the remove of overburden and some special tasks like fuel and water delivery. To keep this equipment productive, the Indonesian Volvo rep. has a special team onsite, which is supported by Volvo's equipment tracking software.

(From the archive of "[bulk solids handling](#)", article published in Vol. 35 (2015) No. 2 , ©2015 bulk-online.com) Indonesian coal giant, Kaltim Prima Coal (KPC), operates the Sangatta Coal Mine, located in East Kutai Regency in East Kalimantan. The sparsely populated area has a density of just 7.1 people per km² (Jakarta has 14 440/km²). The region is rich in natural resources, but its challenging infrastructure can make it difficult to maintain the equipment that is used on site.



An A35E charges through the dusty site. (Pictures: © Volvo)

KPC has a fleet of 73 Volvo Construction Equipment (Volvo CE) machines, including 65 articulated haulers and eight crawler excavators. The machines are vital for extracting and transporting overburden, fuel and water across the large site. If a machine is out of action, operations are interrupted and downtime costs money. That's why Volvo CE's dealer in the region – Intraco Penta Prima Servis (IPPS) – has deployed a team of trained technicians to be stationed on-site, offering round-the-clock repairs and maintenance. KPC owns mining concession areas that span over 900 km², and between six and 12 open pits can be in operation at any one time. "Ensuring machines are properly maintained so that our customers can achieve optimal performance and profit is important to us," explains Dede Suheri, assistant service manager at Volvo Indonesia. He continues:

“By having a team of experienced technicians on site – as well as a stockpile of spare parts – we are able to deliver fast and effective support when our customers need it most. One of the oldest machines on site has clocked over 100 000 operational hours – giving testament to the great work they do year after year.”

Fleet Management made easy

The team of IPPS service technicians are able to monitor the company’s fleet remotely using Volvo CE’s Caretrack telematics system which allows fleet managers to run reports on fuel consumption, operational hours and geographical location – as well as alerting them to service and maintenance checks. “The IPPS technicians have done a great job of supporting our machines on site and advising on how to plan for service and maintenance checks, as well as how to maximize fuel efficiency,” explains Untung Tri Hardiayanto, general manager, KPC-Mining Support Division. “The support and guidance we receive has reduced our operational costs and increased the uptime of our equipment.”



To reduce the amount of dust raised by the overburden-transport haulers the roads need to be watered. This is done by converted articulated haulers.

CareTrack also allows fleet managers to set location and time boundaries, and if the machine leaves the preset proximity, they are alerted immediately. KPC uses eight crawler excavators on site, including five EC210Bs, one EC210BLR and two EC330BLC Prime. Volvo excavators can be fitted with an anti-theft tracking

system, which can demobilize the machine if necessary. In locations where there is no mobile reception, Volvo can fit the machine with a satellite modem that allows data reporting. “It gives us peace of mind to know that we can track our machines across the vast site,” Hardiyanto adds.

The right Machines

KPC uses seven Volvo A35C, 36 A35E and 22 A35F articulated haulers to transport overburden around the large site, while some have been modified to transport water or fuel. The Volvo-designed-and-made drivetrain has been developed to work seamlessly with the engine, transmission, axles and systems. The machines also feature self-compensating, hydro-mechanical steering for safer operation and a longer lifespan. The eight excavators are used to strip and load the overburden onto awaiting haulers. They are designed and built to deliver long-lasting performance, powerful strength and leading fuel efficiency. The dependable Volvo engine delivers high torque at low revs, while the reinforced undercarriage delivers durability on uneven terrain.

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