

RINGKASAN

PT Feron Tambang Kalimantan merupakan salah satu perusahaan tambang bijih besi (*hematite*) yang terletak di Kabupaten Kotawaringin Timur, Kalimantan Tengah. Kegiatan penambangan menggunakan sistem tambang terbuka (*Surface Mining*) dengan metode penambangan *open cut*. Target produksi penambangan bijih besi sebesar 5.000 ton/hari.

Waktu kerja yang tersedia 830 menit/hari. Waktu kerja efektif *backhoe Hitachi Zaxis-330* adalah 628 menit/hari (76%) dan waktu kerja efektif *dumptruck Hino FM 260 JD* adalah 550 menit/hari (66%). Kegiatan produksi 2 alat muat *backhoe Hitachi Zaxis-330* sebesar 10.493 ton/hari sedangkan jumlah produksi 29 unit alat angkut *dumptruck Hino FM 260 JD* sebesar 4.064 ton/hari. Keserasian alat antara 2 alat muat dan 29 alat angkut dari 0,505. Waktu tunggu alat muat *backhoe Hitachi Zaxis-330* 1,859 menit.

Pencapaian target produksi dilakukan dengan cara memperbaiki waktu edar alat angkut, beban muatan alat angkut, waktu kerja efektif dan penambahan alat angkut. Perbaikan waktu edar untuk alat angkut dalam sekali pengangkutan dari yang mulanya 54,42 menit menjadi 49,02 menit. Pengurangan beban muatan yang awalnya 6 *bucket* menjadi 5 *bucket*. Peningkatan waktu kerja efektif dan efisiensi alat angkut yang mulanya 550,65 menit /hari (66%) menjadi 587,15 menit/hari (71%). Penambahan unit alat angkut yaitu 5 unit menjadi 34 unit. Produksi mengalami kenaikan dari 4.275 ton/hari menjadi 5.012 ton/hari. Target produksi PT Feron Tambang Kalimantan sebesar 5.000 ton/hari sudah tercapai.

Keserasian alat antara alat muat dan alat angkut mengalami perubahan dikarenakan adanya penambahan alat angkut dan pengurangan beban muatan pada alat angkut. Keserasian alat antara 2 alat muat dan 34 alat angkut dari 0,505 menjadi 0,55. Sedangkan waktu tunggu alat muat yang semula 1,859 menit menjadi 1,305 menit.

ABSTRACT

PT Feron Tambang Kalimantan is one of the companies mining iron ore (hematite). That is located in East Kotawaringin, Central Kalimantan. The activities of iron ore mining using Surface Mining system with the open cut mining methods. The Production target of Iron ore mining 5,000 tons/day.

The available working time is 830 minutes/day. The effective working time backhoe Hitachi Zaxis-330 is 628 minutes/day (76%) and the effective working time dumptruk Hino FM 260 JD is 550 minutes/day (66%). the production 2 units of backhoe Hitachi Zaxis-330 is 10,493 tons/day. The production of 29 units of dumptruck Hino FM 260 JD is 4,064 tons/day. Match Factor between 2 units of backhoe and 29 units of dumptruck is 0.505. The waiting time backhoe is 1.859 minutes.

Production target by improving the circulation time of dumptruck, load the charge dumptruck, effective working time and the addition of dumptruck. Repairing time for dumptruck circulation in one of the first transport of 54.42 minutes to 49.02 minutes. Reduction in load which previously 6 becomes 5 bucket bucket. The increase in the effective working time and efficiency of dumptruck which initially 550.65 minutes/day (66%) to 587.15 minutes/day (71%). Addition unit dumptruck which is 5 units to 34 units. Production increased from 4,275 tons/day to 5,012 tons/day. The production target of PT Feron Tambang Kalimantan 5,000 tons / day has been reached.

Match Factor 2 units of backhoe and 29 units of dumptruck has change, because the addition of dumptruck and reduction in load on the dumptruck. Match Factor between 2 units of backhoe and 34 units of dumptruck from 0.505 to 0.55. While waiting time unloading tool that was originally 1.859 minutes to 1.305 minutes.