

ABSTRACT

PT. Kaltim Prima Coal is company that engages in coal mining which located in PT. Kaltim Prima Coal mining in Sangatta, East Kutai regency, East Borneo Province. The mining systems that PT. Kaltim Prima Coal use is surface mining. The overburden activity in Pit Pinang South done by using dragline and dump truck type CAT 789B to the disposal area within 3400 meters far.

PT.KPC's budget cost fuel is the highest among other budget cost fuel, because of that PT.KPC need to optimize the fuel cost. Therefore, the high low of Engine Uprate can be used to find out the fuel efficiency level. EUR is one of the indicator to appraise how efficient the fuel that used for operating the system. The higher the EUR, the less efficient the fuel that used for operation. The EUR target on dump truck CAT 789B is 112, but it is higher than the actual plan for the field. The highest EUR on the first (1st) week until nineteenth (19th) week in 2017 is 1.22. The average of the EUR on the first (1st) week until nineteenth (19th) week in 2017 is 1.17. The reason it did not reach the target cause by some problem, for example, PT. KPC does not have Standard Operating Procedure for controlling the switching off of the machine when on queue status at loading point so that the engine dump truck keeps running, the dispatcher who does not know the field condition because of blank spot area assume that the dump truck machine won't start because the dump truck CAT 789B using wind system.

The efforts to reach the used fuel target can be done with few methods. First method is knowing the cause of the biggest EUR from the data plan delay, EUR history data from the dump truck CAT 789B. The second method, making guidelines to switch off the engine when unproductive. The third method, performing a trial towards the guidelines that have been made to find out the amount of the EUR reduction. The fourth method, writing a weekly EUR for every supervisor every crew. The fifth method, install a beep alarm on every unit to observe the engine in every dump truck. The beep alarm can tell if the dump truck engine running when on certain delays. For example, delays rain, relocate, daily fuel. The sixth method, manage the damage under one hour so that it can be fixed at the fuel station.