

ABSTRACT

PT Primas Trans is a company engaged in the field of Transportation Services Delivery Coal and Iron Sand domiciled in the City of Tasikmalaya. Vehicle used by PT. Mitsubishi Fuso Trans Primas is Fn-527-M 6x4 Dump Truck. Currently PT Primas Trans has 10 vehicles to run its operations, seven vehicles used for delivery services with delivery paths Coal Cirebon - Bandung, while three other vehicles used for delivery services with delivery paths Iron Sand Tasikmalaya - Cilacap.

Vehicle reliability is an important role of this business because Core Business is the ministry of transportation services, so as to meet the needs and satisfaction of customer condition of the vehicle must be in good condition, which means that the condition of the vehicle can be operated from a physical condition or state of the machine is worth to operated. And to ensure the reliability of the vehicle needed maintenance activities can be determined effectively so that maintenance actions and schedules the appropriate treatment for these vehicles, which are used care policy is Reliability Centered Maintenance policy (RCM), with this policy for vehicle maintenance activities can be analyzed qualitatively and quantitatively . In addition, the maintenance activities will certainly do the turn part, to determine the optimal part needs, so as to meet the replacement parts used methods Marginal Assurance.

The results obtained from the qualitative analysis using RCM is contained twenty-eight events scheduled on condition, two Schedule Discard the Periodic Task and finding failure. The results of quantitative calculations is to determine maintenance intervals for each system with a value of 90% reliability. Procurement of spareparts using Marginal Assurance, procurement selected period with third the amount of the provision for a year with as many as 14 pieces of tires, brake lining as many as 11 pieces and shock absorber as many as 5 pieces, overall total cost Rp201.348.425,53 with Assurance Level every procurement period 92,55% and total assurance Level 79,29%

Keywords: Vehicle Maintenance, RCM, Marginal Assurance.