

ABSTRACT

CV. Palapa Jaya is a company engaged in the field of expeditions. To avoid penalty delays in the delivery of goods, trucks owned by the company must always be ready in operational conditions to avoid obstacles caused by damage to spare parts. Truck Hino FL 235 is a Tronton truck with the furthest route used by the company, Jakarta-North Sumatra. For the condition of the truck is always ready in operational conditions, a good spare part inventory policy is required by the company. In this research, the Reliability Centered Spares (RCS) method is used to determine critical spare part needs for 1 year by using the Poisson process. By using the Reliability Centred Spares (RCS) method, the need for fuel filter components for 1 year as many as 27 pieces.

Keyword : RCS, *poisson process*, *spare part*