

ANALISIS BIAYA PENGGANTIAN DAN PEMELIHARAAN BEARING TRAILER DI SUGAR GROUP COMPANIES

Intisari

Tujuan penelitian ini adalah untuk mengetahui: (i) biaya dan periode *grease* optimal yang digunakan untuk proses penggantian dan pemeliharaan *bearing* unit *trailer* di *Sugar Group Companies*, dan (ii) pengaruh periode *grease*, umur pakai *bearing* unit *trailer*, frekuensi penggantian *bearing* dalam setahun, frekuensi *grease* dalam satu tahun, unit *bearing trailer*, merk *bearing trailer*, dan lokasi pabrik berpengaruh terhadap biaya penggantian dan pemeliharaan *bearing* unit *trailer* di *Sugar Group Companies*. Metode dasar yang digunakan pada penelitian ini adalah deskriptif analitik. Metode penentuan lokasi dilakukan secara sengaja (*purposive*) yaitu Divisi *Workshop Sugar Group Companies* yang meliputi tiga pabrik, yaitu: PT. ILP, PT. SIL, dan PT. GPM. Metode analisis yang digunakan adalah berupa analisis tabel, grafik, dan analisis regresi berganda.

Hasil penelitian menunjukkan bahwa periode *grease* biaya penggantian dan pemeliharaan *bearing* unit *trailer* di *Sugar Group Companies* yang optimal, untuk: (i) PT. ILP baik merk A maupun merk B untuk *bearing* unit *trailer: Fertilizer Trailer, Water Tank, Side Tipping Trailer*, dan *Tangki Moving* adalah periode *grease* 5 hari sedangkan *bearing* unit *trailer Patria* dan *Disc Harrow* pada periode *grease* 3 hari; (ii) PT. SIL baik merk A maupun merk B semua jenis *bearing* unit *trailer* yakni: *Fertilizer Trailer, Water Tank, Patria, Side Tipping Trailer*, dan *Tangki Moving* pada periode *grease* 5 hari kecuali *bearing* unit *Disc Harrow* pada periode *grease* 3 hari; dan (iii) PT. GPM untuk merk B semua jenis *bearing* unit *trailer (Fertilizer Trailer, Water Tank, Patria, Side Tipping Trailer, Tangki Moving, dan Disc Harrow)* pada periode *grease* 5 hari, begitu pula dengan merk A kecuali *bearing* unit *Disc Harrow* pada periode *grease* 3 hari.

Selanjutnya, faktor-faktor yang berpengaruh terhadap biaya penggantian dan pemeliharaan *bearing trailer* di *Sugar Group Companies* adalah periode *grease*, frekuensi penggantian *bearing* dalam satu tahun, dan frekuensi *grease* dalam satu tahun. Selanjutnya, unit *bearing Fertilizer Trailer* memiliki biaya penggantian dan pemeliharaan *bearing* unit *trailer* paling rendah dibanding unit *bearing trailer* lainnya (*Water Tank, Patria, Side Tipping Trailer, Tangki Moving, dan Disc Harrow*). Merk A memiliki biaya penggantian dan pemeliharaan *bearing* unit *trailer* lebih rendah dibanding merk B. PT. ILP memiliki biaya penggantian dan pemeliharaan *bearing* unit *trailer* paling rendah dibanding PT. SIL dan PT. GPM (PT. GPM memiliki biaya penggantian dan pemeliharaan *bearing trailer* paling besar).

Kata kunci: *bearing, grease, pemeliharaan, penggantian*

COST ANALYSIS OF REPLACEMENT AND MAINTENANCE OF BEARING TRAILER IN SUGAR GROUP COMPANIES

Abstract

The purpose of this study was to determine: (i) the costs and periods of grease optimally used for the replacement and maintenance of the bearing unit trailer in Sugar Group Companies (SGC), and (ii) the effect of a period of grease, lifespan bearing unit trailer, the frequency of replacement of bearing in a year, frequency grease in one year, bearing unit trailer, trailer bearing the brand and type of plant affect the cost of replacement and maintenance of the bearing unit trailer in SGC. The basic method used in this research is descriptive and analytical. The method of determining the location of intentional (purposive) that Workshop Division SGC which includes three factories, namely: PT. ILP, PT. SIL, and PT. GPM. The analytical method used is in the form of analytical tables, charts, and multiple regression analysis.

The results showed that the period grease bearing replacement costs and maintenance of the trailer unit in SGC are optimal, to: (i) PT. ILP both brand A and brand B for bearing unit trailer: Fertilizer Trailers, Water Tank, Side Tipping Trailer, and Tank Moving is a period of 5 days, while bearing grease trailer unit Patria and Disc Harrow on grease a 3 day period; (ii) PT. SIL both brand A and brand B all kinds of bearing unit trailer namely: Fertilizer Trailers, Water Tank, Patria, Side Tipping Trailer, and tanks moving in the period 5 days unless bearing grease trailer unit Disc Harrow on grease a 3 day period; and (iii) PT. GPM for brands and all kinds of bearing unit trailer (Fertilizer Trailers, Water Tank, Patria, Side Tipping Trailer, Tank Moving, and Disc Harrow) in the period from grease 5 days, nor with the brand A except bearing unit trailer Disc Harrow in the period grease 3 days.

Furthermore, the factors of the cost replacement and maintenance trailer bearing in SGC is a period of grease, bearing replacement frequency in one year, and the frequency of grease in one year. Furthermore, Trailer Fertilizer bearing unit has a bearing replacement costs and maintenance of the trailer unit is lowest than the other trailer bearing unit (Water Tank, Patria, Side Tipping Trailer, Tank Moving, and Disc Harrow). Brand A has a bearing replacement costs and maintenance of the trailer unit is lower than brand B. PT. ILP has a bearing replacement costs and maintenance of the trailer unit lower than PT. SIL and PT. GPM (PT. GPM has spend the most cost for replacement and maintenance bearing trailer).

Keywords: *bearing, grease, maintenance, replacement*