

DAFTAR ISI

HALAMAN JUDUL	Error! Bookmark not defined.
LEMBAR PERSETUJUAN	Error! Bookmark not defined.
LEMBAR PENGESAHAN	Error! Bookmark not defined.
LEMBAR PERNYATAAN	Error! Bookmark not defined.
KATA PENGANTAR.....	Error! Bookmark not defined.
ABSTRAK	Error! Bookmark not defined.
ABSTRACT	Error! Bookmark not defined.
DAFTAR ISI.....	ix
DAFTAR TABEL.....	xii
DAFTAR GAMBAR.....	xiv
DAFTAR LAMPIRAN	xvi
BAB I PENDAHULUAN.....	Error! Bookmark not defined.
1.1 Latar Belakang	Error! Bookmark not defined.
1.2 Rumusan Masalah	Error! Bookmark not defined.
1.3 Tujuan Penelitian.....	Error! Bookmark not defined.
1.4 Manfaat.....	Error! Bookmark not defined.
1.5 Batasan Masalah.....	Error! Bookmark not defined.
1.6 Asumsi Penelitian.....	Error! Bookmark not defined.
BAB II TINJAUAN PUSTAKA.....	Error! Bookmark not defined.
2.1 Perawatan (<i>Maintenance</i>).....	Error! Bookmark not defined.
2.1.1 Definisi perawatan.....	Error! Bookmark not defined.
2.1.2 Jenis-jenis Perawatan Mesin	Error! Bookmark not defined.
2.1.3 Bentuk-bentuk Perawatan Mesin.....	Error! Bookmark not defined.
2.1.4 Tujuan Perawatan Mesin	Error! Bookmark not defined.

2.1.5 Keuntungan dari Perawatan Mesin.....	Error! Bookmark not defined.
2.2 Mesin <i>Filling Sachet</i>	Error! Bookmark not defined.
2.2.1 Pengertian Mesin Filling Sachet	Error! Bookmark not defined.
2.2.2 Fungsi Mesin Filling sachet	Error! Bookmark not defined.
2.3 <i>Failure Mode and Effect Analysis</i> (FMEA) ..	Error! Bookmark not defined.
2.3.1 Pengertian <i>Failure Mode and Effect Analysis</i> (FMEA)	Error! Bookmark not defined.
2.3.2 Langkah-langkah <i>Failure Mode and Effect Analysis</i> ..	Error! Bookmark not defined.
2.4 <i>Reliability Centered Maintenance</i>	Error! Bookmark not defined.
2.4.1 Pengertian <i>Reliability Centered Maintenance</i> ..	Error! Bookmark not defined.
2.4.2 Tujuan <i>Reliability Centered Maintenance</i> ..	Error! Bookmark not defined.
2.4.3 Ruang Lingkup <i>Reliability Centered Maintenance</i> ..	Error! Bookmark not defined.
2.4.4 Langkah langkah <i>Reliability Centered Maintenance</i> ..	Error! Bookmark not defined.
2.5 Model Distrbusi	Error! Bookmark not defined.
2.6 Variabel Waktu Perawatan	Error! Bookmark not defined.
2.7 Model Perhitungan Waktu Penggantian Komponen ..	Error! Bookmark not defined.
2.8 Uji Validitas	Error! Bookmark not defined.
2.9 Uji Reliabilitas.....	Error! Bookmark not defined.
2.10 Penelitian Terkait	Error! Bookmark not defined.
2.11 Kerangka Pemikiran.....	Error! Bookmark not defined.
BAB III METODE PENELITIAN	Error! Bookmark not defined.

3.1 Objek Penelitian	Error! Bookmark not defined.
3.2 Prosedur Penelitian.....	Error! Bookmark not defined.
3.3 Jenis Data dan Sumber Data.....	Error! Bookmark not defined.
3.3.1 Data Primer	Error! Bookmark not defined.
3.3.2 Data Sekunder	Error! Bookmark not defined.
3.4 Teknik Pengumpulan Data.....	Error! Bookmark not defined.
3.4.1 Observasi	Error! Bookmark not defined.
3.4.2 Wawancara	Error! Bookmark not defined.
3.4.3 Kuesioner	Error! Bookmark not defined.
3.5 Populasi dan Sampel.....	Error! Bookmark not defined.
3.5.1 Populasi	Error! Bookmark not defined.
3.5.2 Sampel.....	Error! Bookmark not defined.
3.6 Teknik Analisis Data.....	Error! Bookmark not defined.
3.6.1 Tahap Identifikasi.....	Error! Bookmark not defined.
3.6.2 Tahap Pengujian Data.....	Error! Bookmark not defined.
3.6.3 Tahap Pengolahan Data	Error! Bookmark not defined.
3.6.4 Tahap Kesimpulan.....	Error! Bookmark not defined.
BAB IV HASIL DAN PEMBAHASAN.....	Error! Bookmark not defined.
4.1 Hasil Pengumpulan Data.....	Error! Bookmark not defined.
4.1.1 Data kerusakan Mesin <i>filling sachet</i> 8L.....	Error! Bookmark not defined.
4.1.2 Data Frekuensi kerusakan komponen Mesin <i>filling sachet</i> 8L.....	Error! Bookmark not defined.
4.1.3 Data Kuesioner komponen mesin <i>filling sachet</i> 8L.....	Error! Bookmark not defined.
4.2 Pengolahan Data.....	Error! Bookmark not defined.
4.2.1 Teknik pengolahan data menggunakan metode FMEA.....	Error! Bookmark not defined.

4.2.2 Teknik pengolahan data menggunakan metode RCMError! **Bookmark not defined.**

BAB V KESIMPULAN DAN SARANError! Bookmark not defined.

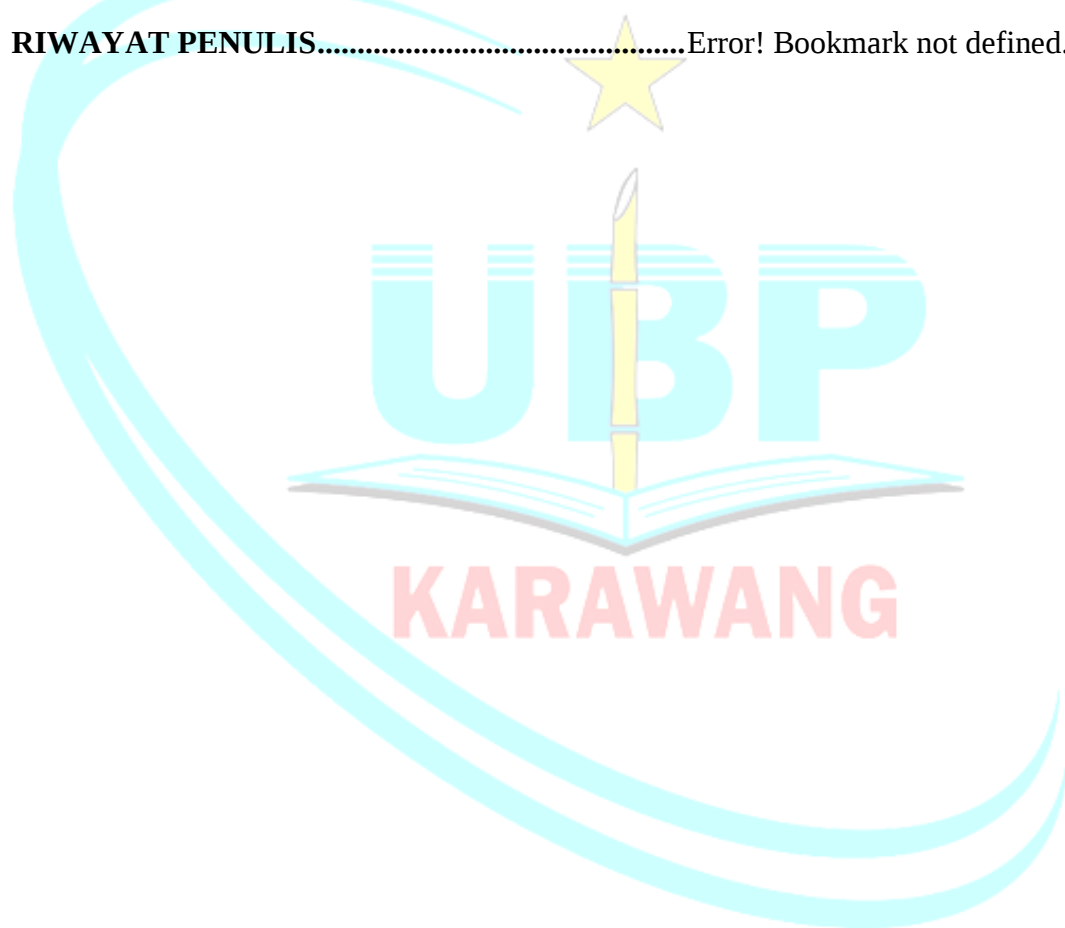
5.1 Kesimpulan.....Error! **Bookmark not defined.**

5.2 Saran.....Error! **Bookmark not defined.**

DAFTAR PUSTAKAError! Bookmark not defined.

LAMPIRAN.....Error! Bookmark not defined.

RIWAYAT PENULIS.....Error! Bookmark not defined.



DAFTAR TABEL

Tabel 1. 1 Nilai <i>Downtime</i> mesin <i>filling sachet 8L & filling sachet 16L 2023</i>	Error! Bookmark not defined.
Tabel 2. 1 Skala Parameter <i>Severity</i>	Error! Bookmark not defined.
Tabel 2. 2 Skala Parameter <i>Occurance</i>	Error! Bookmark not defined.
Tabel 2. 3 Skala Parameter <i>Detection</i>	Error! Bookmark not defined.
Tabel 2. 4 Peringkat Indonesia Kegagalan (KPN).	Error! Bookmark not defined.
Tabel 2. 5 Penelitian Terkait	Error! Bookmark not defined.
Tabel 3. 1 Daftar Pertanyaan Wawancara	Error! Bookmark not defined.
Tabel 3. 2 Hasil Wawancara <i>Supervisor PMA Engineering</i>	Error! Bookmark not defined.
Tabel 3. 3 Responden Kuesioner	Error! Bookmark not defined.
Tabel 3. 4 Hasil Uji Validitas Kuesioner.....	Error! Bookmark not defined.
Tabel 4. 1 Kerusakan komponen Mesin <i>filling sachet 8L 2023</i>	Error! Bookmark not defined.
Tabel 4. 2 Durasi Kerusakan komponen mesin <i>filling sachet 8L 2023</i>	Error! Bookmark not defined.
Tabel 4. 3 Frekuensi kerusakan komponen mesin <i>filling sachet 8L 2023</i>	Error! Bookmark not defined.
Tabel 4. 4 Hasil uji validitas Kuesioner (N=15)....	Error! Bookmark not defined.
Tabel 4. 5 Data Penilaian berdasarkan <i>Severity</i>	Error! Bookmark not defined.
Tabel 4. 6 Data penilaian berdasarkan <i>Occurrence</i>	Error! Bookmark not defined.
Tabel 4. 7 Data Penilaian Berdasarkan Nilai <i>Detection</i>	Error! Bookmark not defined.
Tabel 4. 8 Hasil Perhitungan Nilai <i>Severity, Occurance, Dan Detection</i>	Error! Bookmark not defined.
Tabel 4. 9 Hasil perhitungan nilai RPN komponen mesin <i>filling sachet 8L</i> .	Error! Bookmark not defined.
Tabel 4. 10 Interval kerusakan dan waktu perbaikan komponen pisau <i>slitting</i>	Error! Bookmark not defined.

Tabel 4. 11 *Output* Uji distribusi TTF pisau *slitting***Error! Bookmark not defined.**

Tabel 4. 12 Interval Kerusakan Dan Perbaikan *Oilseal Housing* Pompa**Error! Bookmark not defined.**

Tabel 4. 13 *Output* uji distribusi *oilseal housing* pompa**Error! Bookmark not defined.**

Tabel 4. 14 *Output* Uji Distribusi *Oring* Piston Pompa**Error! Bookmark not defined.**

Tabel 4. 15 *Output* Uji Distribusi *Oring* Piston Pompa**Error! Bookmark not defined.**

Tabel 4. 16 Interval Kerusakan Dan Perbaikan Komponen *Rotary***Error! Bookmark not defined.**

Tabel 4. 17 *Output* Uji Distribusi Komponen *Rotary***Error! Bookmark not defined.**

Tabel 4. 18 Rekapitulasi Uji Distribusi Dan Parameter TTF**Error! Bookmark not defined.**

Tabel 4. 19 Rekapitulasi *Mean to Time Failure* (MTTF)**Error! Bookmark not defined.**

Tabel 4. 20 Rekapitulasi *Mean Time to Repair* (MTTR)**Error! Bookmark not defined.**

Tabel 4. 21 Rekapitulasi *Mean time to between* (MTBF)**Error! Bookmark not defined.**

Tabel 4. 22 Hasil Rekapitulasi Interval Waktu Pemeriksaan**Error! Bookmark not defined.**

Tabel 4. 23 Hasil Rekapitulasi perhitungan *Availability* Total**Error! Bookmark not defined.**

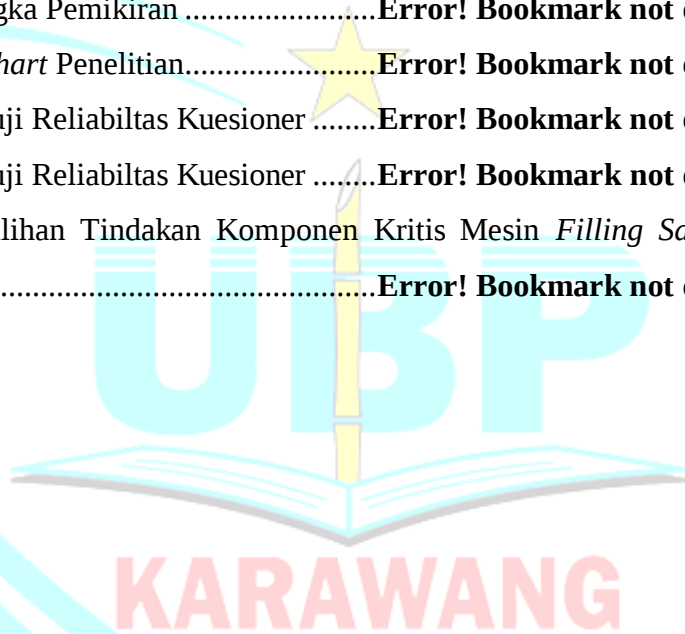
Tabel 4. 24 Usulan jadwal perawatan komponen mesin *filling sachet* 8L**Error! Bookmark not defined.**

Tabel 4. 25 Hasil biaya total perawatan komponen mesin *filling sachet* 8L.**Error! Bookmark not defined.**



DAFTAR GAMBAR

Gambar 1. 1	Data Hasil Produksi 2023	Error! Bookmark not defined.
Gambar 1. 2	Frekuensi kerusakan mesin <i>filling sachet</i> 8L.....	Error! Bookmark not defined.
Gambar 2. 1	Skema Pembagian Perawatan	Error! Bookmark not defined.
Gambar 2. 2	Mesin <i>Filling Sachet</i> 8L.....	Error! Bookmark not defined.
Gambar 2. 3	Proses <i>Filling Sachet</i> 8L.....	Error! Bookmark not defined.
Gambar 2. 4	Ruang lingkup RCM.....	Error! Bookmark not defined.
Gambar 2. 5	Kerangka Pemikiran	Error! Bookmark not defined.
Gambar 3. 1	<i>Flowchart</i> Penelitian.....	Error! Bookmark not defined.
Gambar 3. 2	Hasil uji Reliabilitas Kuesioner	Error! Bookmark not defined.
Gambar 4. 1	Hasil uji Reliabilitas Kuesioner	Error! Bookmark not defined.
Gambar 4. 2	Pemilihan Tindakan Komponen Kritis Mesin <i>Filling Sachet</i> 8L.....	Error! Bookmark not defined.



DAFTAR RUMUS

2.1 Risk Priority Number (RPN).....	18
2.2 Distribusi <i>weibull</i> (Fungsi probabilitas).....	24
2.3 Distribusi <i>weibull</i> (fungsi kumulatif).....	24
2.4 Distribusi <i>weibull</i> (fungsi keandalan).....	24
2.5 Distribusi <i>weibull</i> (fungsi laju kerusakan).....	25
2.6 Distribusi Normal (Fungsi probabilitas).....	26
2.7 Distribusi Normal (fungsi kumulatif).....	26
2.8 Distribusi Normal (fungsi keandalan).....	26
2.9 Distribusi Normal (fungsi laju kerusakan).....	26
2.10 Distribusi <i>Lognormal</i> (fungsi probabilitas).....	26
2.11 Distribusi <i>Lognormal</i> (fungsi kumulatif).....	27
2.12 Distribusi <i>Lognormal</i> (fungsi keandalan).....	27
2.13 Distribusi <i>Lognormal</i> (fungsi laju kerusakan).....	27
2.14 Distribusi <i>Eksponensial</i> (fungsi probabilitas).....	27
2.15 Distribusi <i>Eksponensial</i> (fungsi kumulatif).....	28
2.16 Distribusi <i>Eksponensial</i> (fungsi keandalan).....	28
2.17 Distribusi <i>Eksponensial</i> (fungsi laju kerusakan).....	28
2.18 MTTF (Distribusi <i>weibull</i>).....	28
2.19 MTTF (Distribusi Normal).....	28
2.20 MTTF (Distribusi <i>Lognormal</i>).....	28
2.21 MTTF (Distribusi <i>Eksponensial</i>).....	29
2.22 MTTR.....	29
2.23 MTBF.....	30
2.24 Block Repleacment.....	30
2.25 Age Repleacment.....	31
2.26 Uji Validitas.....	31
2.27 Uji Reliabilitas.....	32

DAFTAR LAMPIRAN

Lampiran 1 Dokumentasi kerusakan komponen mesin *filling sachet* 8L **Error! Bookmark not defined.**

Lampiran 2 Surat izin penelitian Tugas Akhir.....**Error! Bookmark not defined.**

Lampiran 3 Surat pernyataan Wawancara Supervisor PMA-*Engineering* .. **Error! Bookmark not defined.**

Lampiran 4 Dokumentasi Data kerusakan komponen mesin *filling sachet* 8L 2023**Error! Bookmark not defined.**

Lampiran 5 Hasil pengisian Kuesioner Nilai SxOxD Mesin *filling sachet* 8L**Error! Bookmark not defined.**

Lampiran 6 Hasil pengisian Kuesioner Nilai SxOxD Mesin *filling sachet* 8L**Error! Bookmark not defined.**

Lampiran 7 Hasil pengisian Kuesioner Nilai SxOxD Mesin *filling sachet* 8L**Error! Bookmark not defined.**

Lampiran 8 Hasil pengisian Kuesioner Nilai SxOxD Mesin *filling sachet* 8L**Error! Bookmark not defined.**

Lampiran 9 Hasil surat kerangan lulus pengecekan Turnitin**Error! Bookmark not defined.**

Lampiran 10 Dokumentasi Hasil produksi Mesin *filling sachet* 8L 2023 ... **Error! Bookmark not defined.**

Lampiran 11 Dokumentasi Wawancara Supervisor PMA-*Engineering* **Error! Bookmark not defined.**

Lampiran 12 Dokumentasi Pengisian lembar Kuesioner SxOxD **Error! Bookmark not defined.**

Lampiran 13 Hasil Uji *Goodness Of Fit* dengan *software Easyfitt* 5.5..... **Error! Bookmark not defined.**

Lampiran 14 Tabel R Hitung Uji Validitas Data .**Error! Bookmark not defined.**