

DAFTAR PUSTAKA

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UNIVERSITAS PGRI ADI BUANA SURABAYA
FAKULTAS TEKNIK

Program Studi Teknik Industri

KAMPUS II: Jl. Dukuh Menanggal XII/4 (031) 8281181 Surabaya 60234

formTA-TI08

DAFTAR BIMBINGAN TUGAS AKHIR

Nama: GIGIH HERI SETIAWAN NIM: 173700058

Dosen Pembimbing: M. NUSHRON ALI MUKHTAR, S.T., M.T

Judul Tugas Akhir: PENJADWALAN PERAWATAN MESIN PERDO

MENGGUNAKAN METODE RELIABILITY CENTERED MAINTENANCE DI PT SGM



NO	TANGGAL	MATERI BIMBINGAN	PARAF DOSEN
1	02-4-2021	Penyajian Data	
2	09-4-2021	Penyajian Data	
3	06-5-2021	Analisis Data	
4	10-5-2021	Analisis Data	
5	18-5-2021	Pengolahan Data	
6	20-5-2021	Pengolahan Data	
7	27-5-2021	Pembahasan	
8	28-5-2021	Kesimpulan	

Dinyatakan selesai tanggal: 28 Mei 2021

Catatan: Daftar Bimbingan ini dilampirkan dalam Tugas Akhir

Mengetahui,
Ketua Prodi Teknik Industri,

Dosen Pembimbing,

Mahasiswa,

M. NUSHRON ALI MUKHTAR, S.T., M.T

M. NUSHRON ALI MUKHTAR, S.T., M.T

GIGIH HERI SETIAWAN



UNIVERSITAS PGRI ADI BUANA SURABAYA
FAKULTAS TEKNIK

Program Studi Teknik Industri

KAMPUS II, Jl. Dukuh Menanggal XII/4 (031) 8281181 Surabaya

formTA-TI10

PERSETUJUAN REVISI TUGAS AKHIR

Nama Mahasiswa : Gigih Heri Setiawan NIM : 173700058

Sidang Tanggal : 2 Juni 2021

Judul Tugas Akhir : PENJADWALAN PERAWATAN MESIN FLEXO

MENGGUNAKAN METODE RELIABILTY CENTERED MAINTENANCE DI PT SGM

NO	TANGGAL	MATERI REVISI	KETERANGAN	PARAF DOSEN
1	4/6/2021	Spasi dan ukuran huruf pada tabel dkecilkan		
2	7/6/2021	Penambahan pengertian mesin Flexo		
3	9/6/2021	Penambahan penjelasan SxOxD sebelum tabel FMEA		
4	11/6/2021	Penambahan contoh bagaimana menghitung RPN sebelum tabel FMEA		
5	14/6/2021	Penambahan kalimat pada Analisa dan Pembahasan		
6	15/6/2021	Kesimpulan		

Revisi disetujui Dosen Pengujitanggal: 15 Juni 2021

Catatan : Revisi Tugas Akhir ini dilampirkan dalam Tugas Akhir

Surabaya, 15 Juni 2021

Dosen Penguji I,


Yulia Dwie Nurcahyanie, S.T., M.T.

Dosen Penguji II


Ir. Titiek Koesdijati, M.T.

Lampiran 1. Data Perawatan Komponen

1. Data Anilox Roller

a. Data MTTR Anilox Roller

No	Tanggal Kerusakan	Jenis Kerusakan	Waktu Mulai Kerusakan	Waktu Selesai Kerusakan	Lama Perbaikan (Menit)
1	02/01/2020	Anilox kotor	17:00	17:20	20
2	03/01/2020	Anilox kotor	1:20	2:10	50
3	08/01/2020	Anilox kotor	0:10	0:30	20
4	09/01/2020	Anilox kotor	23:30	23:40	10
5	10/01/2020	Anilox kotor	3:00	3:10	10
6	11/01/2020	Anilox kotor	2:40	2:50	10
7	11/01/2020	Anilox kotor	3:40	4:10	30
8	14/01/2020	Anilox kotor	0:30	0:50	20
9	27/01/2020	Anilox kotor	4:00	4:30	30
10	28/01/2020	Anilox kotor	8:10	8:25	15
11	29/01/2020	Anilox kotor	1:00	2:00	60
12	30/01/2020	Anilox kotor	9:25	9:45	20
13	30/01/2020	Anilox kotor	19:00	19:20	20
14	31/01/2020	Anilox kotor	1:30	1:45	15
15	01/02/2020	Anilox kotor	10:00	10:20	20
16	11/02/2020	Anilox kotor	23:20	23:50	30
17	12/02/2020	Anilox kotor	11:10	11:20	10
18	12/02/2020	Anilox kotor	16:30	16:40	10
19	12/02/2020	Anilox kotor	20:00	20:30	30
20	14/02/2020	Anilox kotor	1:20	1:50	30
21	18/02/2020	Anilox kotor	21:10	21:40	30
22	20/02/2020	Anilox kotor	3:40	4:30	50
23	21/02/2020	Anilox kotor	20:20	20:40	20
24	04/03/2020	Anilox kotor	1:10	1:25	15
25	04/03/2020	Anilox kotor	2:20	2:35	15
26	06/03/2020	Anilox kotor	1:20	1:35	15
27	07/03/2020	Anilox kotor	20:10	20:40	30
28	12/03/2020	Anilox kotor	19:00	19:15	15
29	13/03/2020	Anilox kotor	23:00	23:30	30
30	14/03/2020	Anilox kotor	3:00	3:40	40
31	18/03/2020	Anilox kotor	8:30	9:00	30
32	19/03/2020	Anilox kotor	2:10	2:25	15
33	20/03/2020	Anilox kotor	21:10	21:40	30
34	21/03/2020	Anilox kotor	3:40	4:30	50
35	23/03/2020	Anilox kotor	20:20	20:40	20
36	25/03/2020	Anilox kotor	1:10	1:25	15
37	25/03/2020	Anilox kotor	2:20	2:35	15
38	25/03/2020	Anilox kotor	1:20	2:35	75
39	26/03/2020	Anilox kotor	20:10	20:40	30
40	27/03/2020	Anilox kotor	19:00	19:15	15
41	30/03/2020	Anilox kotor	23:00	23:30	30
42	31/03/2020	Anilox kotor	3:00	3:40	40
43	31/03/2020	Anilox kotor	17:00	17:20	20
44	31/03/2020	Anilox kotor	23:20	23:30	10
45	01/04/2020	Anilox kotor	0:10	0:30	20
46	01/04/2020	Anilox kotor	23:30	23:40	10
47	02/04/2020	Anilox kotor	2:40	3:10	30
48	02/04/2020	Anilox kotor	6:10	6:50	40
49	02/04/2020	Anilox kotor	19:40	20:10	30
50	03/04/2020	Anilox kotor	0:30	0:50	20
51	03/04/2020	Anilox kotor	4:00	4:30	30

52	04/04/2020	Anilox kotor	8:10	8:25	15
53	04/04/2020	Anilox kotor	23:00	23:35	35
54	06/04/2020	Anilox kotor	9:25	9:45	20
55	07/04/2020	Anilox kotor	19:00	19:20	20
56	07/04/2020	Anilox kotor	23:30	23:50	20
57	20/04/2020	Anilox kotor	10:00	10:20	20
58	20/04/2020	Anilox kotor	23:20	23:50	30
59	21/04/2020	Anilox kotor	11:10	11:20	10
60	22/04/2020	Anilox kotor	8:30	9:00	30
61	22/04/2020	Anilox kotor	23:10	23:50	40
62	08/05/2020	Anilox kotor	21:10	21:40	30
63	11/05/2020	Anilox kotor	3:40	4:30	50
64	14/05/2020	Anilox kotor	20:20	20:40	20
65	18/05/2020	Anilox kotor	1:10	1:25	15
66	18/05/2020	Anilox kotor	2:20	2:35	15
67	20/05/2020	Anilox kotor	1:20	1:30	10
68	21/05/2020	Anilox kotor	20:10	20:40	30
69	03/06/2020	Anilox kotor	19:00	19:15	15
70	05/06/2020	Anilox kotor	3:00	3:30	30
71	05/06/2020	Anilox kotor	23:00	23:40	40
72	09/06/2020	Anilox kotor	17:00	17:20	20
73	10/06/2020	Anilox kotor	1:20	2:10	50
74	11/06/2020	Anilox kotor	0:10	0:30	20
75	11/06/2020	Anilox kotor	3:30	4:00	30
76	11/06/2020	Anilox kotor	17:00	17:10	10
77	12/06/2020	Anilox kotor	2:40	2:50	10
78	15/06/2020	Anilox kotor	3:40	4:10	30
79	15/06/2020	Anilox kotor	10:30	10:50	20
80	16/06/2020	Anilox kotor	8:30	9:00	30
81	17/06/2020	Anilox kotor	2:10	2:25	15
82	17/06/2020	Anilox kotor	21:10	21:40	30
83	18/06/2020	Anilox kotor	3:40	4:30	50
84	19/06/2020	Anilox kotor	1:20	2:00	40
85	19/06/2020	Anilox kotor	21:10	21:25	15
86	22/06/2020	Anilox kotor	2:20	2:35	15
87	22/06/2020	Anilox kotor	20:20	21:35	75
88	23/06/2020	Anilox kotor	20:10	20:40	30
89	23/06/2020	Anilox kotor	23:10	23:35	25
90	24/06/2020	Anilox kotor	23:00	23:30	30
91	25/06/2020	Anilox kotor	3:00	3:40	40
92	27/06/2020	Anilox kotor	17:00	17:20	20
93	01/07/2020	Anilox kotor	1:20	2:10	50
94	01/07/2020	Anilox kotor	10:10	10:30	20
95	01/07/2020	Anilox kotor	23:30	23:40	10
96	03/07/2020	Anilox kotor	3:00	3:10	10
97	03/07/2020	Anilox kotor	9:40	9:50	10
98	03/07/2020	Anilox kotor	10:40	11:00	20
99	03/07/2020	Anilox kotor	14:30	14:50	20
100	03/07/2020	Anilox kotor	17:30	17:50	20
101	03/07/2020	Anilox kotor	23:00	23:35	35
102	04/07/2020	Anilox kotor	1:00	2:00	60
103	04/07/2020	Anilox kotor	8:30	9:00	30
104	07/07/2020	Anilox kotor	2:10	2:25	15
105	07/07/2020	Anilox kotor	21:10	21:40	30
106	11/07/2020	Anilox kotor	3:40	4:30	50

107	11/07/2020	Anilox kotor	20:20	20:40	20
108	12/07/2020	Anilox kotor	1:10	1:25	15
109	12/07/2020	Anilox kotor	2:20	2:35	15
110	13/07/2020	Anilox kotor	1:20	1:45	25
111	13/07/2020	Anilox kotor	20:10	20:40	30
112	13/07/2020	Anilox kotor	23:15	23:35	20
113	14/07/2020	Anilox kotor	3:00	3:30	30
114	14/07/2020	Anilox kotor	23:00	23:40	40
115	15/07/2020	Anilox kotor	1:50	2:20	30
116	15/07/2020	Anilox kotor	17:20	18:00	40
117	15/07/2020	Anilox kotor	23:10	23:30	20
118	16/07/2020	Anilox kotor	3:30	3:40	10
119	16/07/2020	Anilox kotor	11:15	11:40	25
120	16/07/2020	Anilox kotor	17:40	18:00	20
121	16/07/2020	Anilox kotor	20:40	21:10	30
122	16/07/2020	Anilox kotor	23:30	23:50	20
123	17/07/2020	Anilox kotor	4:00	4:30	30
124	20/07/2020	Anilox kotor	8:30	9:00	30
125	20/07/2020	Anilox kotor	23:10	23:55	45
126	21/07/2020	Anilox kotor	5:10	5:40	30
127	21/07/2020	Anilox kotor	23:15	23:55	40
128	22/07/2020	Anilox kotor	20:20	20:40	20
129	22/07/2020	Anilox kotor	22:10	22:25	15
130	23/07/2020	Anilox kotor	2:20	2:35	15
131	25/07/2020	Anilox kotor	1:20	1:40	20
132	27/07/2020	Anilox kotor	20:10	20:40	30
133	28/07/2020	Anilox kotor	19:00	19:15	15
134	28/07/2020	Anilox kotor	23:00	23:30	30
135	29/07/2020	Anilox kotor	3:00	3:40	40
136	29/07/2020	Anilox kotor	17:00	17:20	20
137	30/07/2020	Anilox kotor	1:20	2:10	50
Jumlah					3595

b. Data MTTF *Anilox Roller*

No	Tanggal Kerusakan	Jenis Kerusakan	Waktu Mulai Optimal	Waktu Selesai Optimal	Lama Waktu Optimal (Jam)
1	02/01/2020	Anilox kotor	02/01/2020 17:21	03/01/2020 1:20	7,59
2	03/01/2020	Anilox kotor	03/01/2020 2:11	08/01/2020 0:10	117,59
3	08/01/2020	Anilox kotor	08/01/2020 0:31	09/01/2020 23:30	46,59
4	09/01/2020	Anilox kotor	09/01/2020 23:41	10/01/2020 3:00	3,19
5	10/01/2020	Anilox kotor	10/01/2020 3:11	11/01/2020 2:40	23,29
6	11/01/2020	Anilox kotor	11/01/2020 2:51	11/01/2020 3:40	0,49
7	11/01/2020	Anilox kotor	11/01/2020 4:11	14/01/2020 0:30	68,19
8	14/01/2020	Anilox kotor	14/01/2020 0:51	27/01/2020 4:00	315,09
9	27/01/2020	Anilox kotor	27/01/2020 4:31	28/01/2020 8:10	27,39
10	28/01/2020	Anilox kotor	28/01/2020 8:26	29/01/2020 1:00	16,34
11	29/01/2020	Anilox kotor	29/01/2020 2:01	30/01/2020 9:25	31,24
12	30/01/2020	Anilox kotor	30/01/2020 9:46	30/01/2020 19:00	9,14
13	30/01/2020	Anilox kotor	30/01/2020 19:21	31/01/2020 1:30	6,09
14	31/01/2020	Anilox kotor	31/01/2020 1:46	01/02/2020 10:00	32,14
15	01/02/2020	Anilox kotor	01/02/2020 10:21	11/02/2020 23:20	252,59

16	11/02/2020	Anilox kotor	11/02/2020 23:51	12/02/2020 11:10	11,19
17	12/02/2020	Anilox kotor	12/02/2020 11:21	12/02/2020 16:30	5,09
18	12/02/2020	Anilox kotor	12/02/2020 16:41	12/02/2020 20:00	3,19
19	12/02/2020	Anilox kotor	12/02/2020 20:31	14/02/2020 1:20	28,49
20	14/02/2020	Anilox kotor	14/02/2020 1:51	18/02/2020 21:10	115,19
21	18/02/2020	Anilox kotor	18/02/2020 21:41	20/02/2020 3:40	29,59
22	20/02/2020	Anilox kotor	20/02/2020 4:31	21/02/2020 20:20	39,49
23	21/02/2020	Anilox kotor	21/02/2020 20:41	04/03/2020 1:10	268,29
24	04/03/2020	Anilox kotor	04/03/2020 1:26	04/03/2020 2:20	0,54
25	04/03/2020	Anilox kotor	04/03/2020 2:36	06/03/2020 1:20	46,44
26	06/03/2020	Anilox kotor	06/03/2020 1:36	07/03/2020 20:10	42,34
27	07/03/2020	Anilox kotor	07/03/2020 20:41	12/03/2020 19:00	118,19
28	12/03/2020	Anilox kotor	12/03/2020 19:16	13/03/2020 23:00	27,44
29	13/03/2020	Anilox kotor	13/03/2020 23:31	14/03/2020 3:00	3,29
30	14/03/2020	Anilox kotor	14/03/2020 3:41	18/03/2020 8:30	100,49
31	18/03/2020	Anilox kotor	18/03/2020 9:01	19/03/2020 2:10	17,09
32	19/03/2020	Anilox kotor	19/03/2020 2:26	20/03/2020 21:10	42,44
33	20/03/2020	Anilox kotor	20/03/2020 21:41	21/03/2020 3:40	5,59
34	21/03/2020	Anilox kotor	21/03/2020 4:31	23/03/2020 20:20	63,49
35	23/03/2020	Anilox kotor	23/03/2020 20:41	25/03/2020 1:10	28,29
36	25/03/2020	Anilox kotor	25/03/2020 1:26	25/03/2020 2:20	0,54
37	25/03/2020	Anilox kotor	25/03/2020 2:36	26/03/2020 1:20	22,44
38	25/03/2020	Anilox kotor	25/03/2020 2:36	26/03/2020 20:10	41,34
39	26/03/2020	Anilox kotor	26/03/2020 20:41	27/03/2020 19:00	22,19
40	27/03/2020	Anilox kotor	27/03/2020 19:16	30/03/2020 23:00	75,44
41	30/03/2020	Anilox kotor	30/03/2020 23:31	31/03/2020 3:00	3,29
42	31/03/2020	Anilox kotor	31/03/2020 3:41	31/03/2020 17:00	13,19
43	31/03/2020	Anilox kotor	31/03/2020 17:21	31/03/2020 23:20	5,59
44	31/03/2020	Anilox kotor	31/03/2020 23:31	01/04/2020 0:10	0,39
45	01/04/2020	Anilox kotor	01/04/2020 0:31	01/04/2020 23:30	22,59
46	01/04/2020	Anilox kotor	01/04/2020 23:41	02/04/2020 2:40	2,59
47	02/04/2020	Anilox kotor	02/04/2020 3:11	02/04/2020 6:10	2,59
48	02/04/2020	Anilox kotor	02/04/2020 6:51	02/04/2020 19:40	12,49
49	02/04/2020	Anilox kotor	02/04/2020 20:11	03/04/2020 0:30	4,19
50	03/04/2020	Anilox kotor	03/04/2020 0:51	03/04/2020 4:00	3,09
51	03/04/2020	Anilox kotor	03/04/2020 4:31	04/04/2020 8:10	27,39
52	04/04/2020	Anilox kotor	04/04/2020 8:26	04/04/2020 23:00	14,34
53	04/04/2020	Anilox kotor	04/04/2020 23:36	06/04/2020 9:25	33,49
54	06/04/2020	Anilox kotor	06/04/2020 9:46	07/04/2020 19:00	33,14
55	07/04/2020	Anilox kotor	07/04/2020 19:21	07/04/2020 23:30	4,09
56	07/04/2020	Anilox kotor	07/04/2020 23:51	20/04/2020 10:00	298,09
57	20/04/2020	Anilox kotor	20/04/2020 10:21	20/04/2020 23:20	12,59
58	20/04/2020	Anilox kotor	20/04/2020 23:51	21/04/2020 11:10	11,19
59	21/04/2020	Anilox kotor	21/04/2020 11:21	22/04/2020 8:30	21,09
60	22/04/2020	Anilox kotor	22/04/2020 9:01	22/04/2020 23:10	14,09
61	22/04/2020	Anilox kotor	22/04/2020 23:51	08/05/2020 21:10	381,19
62	08/05/2020	Anilox kotor	08/05/2020 21:41	11/05/2020 3:40	53,59
63	11/05/2020	Anilox kotor	11/05/2020 4:31	14/05/2020 20:20	87,49

64	14/05/2020	Anilox kotor	14/05/2020 20:41	18/05/2020 1:10	76,29
65	18/05/2020	Anilox kotor	18/05/2020 1:26	18/05/2020 2:20	0,54
66	18/05/2020	Anilox kotor	18/05/2020 2:36	20/05/2020 1:20	46,44
67	20/05/2020	Anilox kotor	20/05/2020 1:31	21/05/2020 20:10	42,39
68	21/05/2020	Anilox kotor	21/05/2020 20:41	03/06/2020 19:00	310,19
69	03/06/2020	Anilox kotor	03/06/2020 19:16	05/06/2020 3:00	31,44
70	05/06/2020	Anilox kotor	05/06/2020 3:31	05/06/2020 23:00	19,29
71	05/06/2020	Anilox kotor	05/06/2020 23:41	09/06/2020 17:00	89,19
72	09/06/2020	Anilox kotor	09/06/2020 17:21	10/06/2020 1:20	7,59
73	10/06/2020	Anilox kotor	10/06/2020 2:11	11/06/2020 0:10	21,59
74	11/06/2020	Anilox kotor	11/06/2020 0:31	11/06/2020 3:30	2,59
75	11/06/2020	Anilox kotor	11/06/2020 4:01	11/06/2020 17:00	12,59
76	11/06/2020	Anilox kotor	11/06/2020 17:11	12/06/2020 2:40	9,29
77	12/06/2020	Anilox kotor	12/06/2020 2:51	15/06/2020 3:40	72,49
78	15/06/2020	Anilox kotor	15/06/2020 4:11	15/06/2020 10:30	6,19
79	15/06/2020	Anilox kotor	15/06/2020 10:51	16/06/2020 8:30	21,39
80	16/06/2020	Anilox kotor	16/06/2020 9:01	17/06/2020 2:10	17,09
81	17/06/2020	Anilox kotor	17/06/2020 2:26	17/06/2020 21:10	18,44
82	17/06/2020	Anilox kotor	17/06/2020 21:41	18/06/2020 3:40	5,59
83	18/06/2020	Anilox kotor	18/06/2020 4:31	19/06/2020 1:20	20,49
84	19/06/2020	Anilox kotor	19/06/2020 2:01	19/06/2020 21:10	19,09
85	19/06/2020	Anilox kotor	19/06/2020 21:26	22/06/2020 2:20	52,54
86	22/06/2020	Anilox kotor	22/06/2020 2:36	22/06/2020 20:20	17,44
87	22/06/2020	Anilox kotor	22/06/2020 21:36	23/06/2020 20:10	22,34
88	23/06/2020	Anilox kotor	23/06/2020 20:41	23/06/2020 23:10	2,29
89	23/06/2020	Anilox kotor	23/06/2020 23:36	24/06/2020 23:00	23,24
90	24/06/2020	Anilox kotor	24/06/2020 23:31	25/06/2020 3:00	3,29
91	25/06/2020	Anilox kotor	25/06/2020 3:41	27/06/2020 17:00	61,19
92	27/06/2020	Anilox kotor	27/06/2020 17:21	01/07/2020 1:20	79,59
93	01/07/2020	Anilox kotor	01/07/2020 2:11	01/07/2020 10:10	7,59
94	01/07/2020	Anilox kotor	01/07/2020 10:31	01/07/2020 23:30	12,59
95	01/07/2020	Anilox kotor	01/07/2020 23:41	03/07/2020 3:00	27,19
96	03/07/2020	Anilox kotor	03/07/2020 3:11	03/07/2020 9:40	6,29
97	03/07/2020	Anilox kotor	03/07/2020 9:51	03/07/2020 10:40	0,49
98	03/07/2020	Anilox kotor	03/07/2020 11:01	03/07/2020 14:30	3,29
99	03/07/2020	Anilox kotor	03/07/2020 14:51	03/07/2020 17:30	2,39
100	03/07/2020	Anilox kotor	03/07/2020 17:51	03/07/2020 23:00	5,09
101	03/07/2020	Anilox kotor	03/07/2020 23:36	04/07/2020 1:00	1,24
102	04/07/2020	Anilox kotor	04/07/2020 2:01	04/07/2020 8:30	6,29
103	04/07/2020	Anilox kotor	04/07/2020 9:01	07/07/2020 2:10	65,09
104	07/07/2020	Anilox kotor	07/07/2020 2:26	07/07/2020 21:10	18,44
105	07/07/2020	Anilox kotor	07/07/2020 21:41	11/07/2020 3:40	77,59
106	11/07/2020	Anilox kotor	11/07/2020 4:31	11/07/2020 20:20	15,49
107	11/07/2020	Anilox kotor	11/07/2020 20:41	12/07/2020 1:10	4,29
108	12/07/2020	Anilox kotor	12/07/2020 1:26	12/07/2020 2:20	0,54
109	12/07/2020	Anilox kotor	12/07/2020 2:36	13/07/2020 1:20	22,44
110	13/07/2020	Anilox kotor	13/07/2020 1:46	13/07/2020 20:10	18,24
111	13/07/2020	Anilox kotor	13/07/2020 20:41	13/07/2020 23:15	2,34

112	13/07/2020	Anilox kotor	13/07/2020 23:36	14/07/2020 3:00	3,24
113	14/07/2020	Anilox kotor	14/07/2020 3:31	14/07/2020 23:00	19,29
114	14/07/2020	Anilox kotor	14/07/2020 23:41	15/07/2020 1:50	2,09
115	15/07/2020	Anilox kotor	15/07/2020 2:21	15/07/2020 17:20	14,59
116	15/07/2020	Anilox kotor	15/07/2020 18:01	15/07/2020 23:10	5,09
117	15/07/2020	Anilox kotor	15/07/2020 23:31	16/07/2020 3:30	3,59
118	16/07/2020	Anilox kotor	16/07/2020 3:41	16/07/2020 11:15	7,34
119	16/07/2020	Anilox kotor	16/07/2020 11:41	16/07/2020 17:40	5,59
120	16/07/2020	Anilox kotor	16/07/2020 18:01	16/07/2020 20:40	2,39
121	16/07/2020	Anilox kotor	16/07/2020 21:11	16/07/2020 23:30	2,19
122	16/07/2020	Anilox kotor	16/07/2020 23:51	17/07/2020 4:00	4,09
123	17/07/2020	Anilox kotor	17/07/2020 4:31	20/07/2020 8:30	75,59
124	20/07/2020	Anilox kotor	20/07/2020 9:01	20/07/2020 23:10	14,09
125	20/07/2020	Anilox kotor	20/07/2020 23:56	21/07/2020 5:10	5,14
126	21/07/2020	Anilox kotor	21/07/2020 5:41	21/07/2020 23:15	17,34
127	21/07/2020	Anilox kotor	21/07/2020 23:56	22/07/2020 20:20	20,24
128	22/07/2020	Anilox kotor	22/07/2020 20:41	22/07/2020 22:10	1,29
129	22/07/2020	Anilox kotor	22/07/2020 22:26	23/07/2020 2:20	3,54
130	23/07/2020	Anilox kotor	23/07/2020 2:36	25/07/2020 1:20	46,44
131	25/07/2020	Anilox kotor	25/07/2020 1:41	27/07/2020 20:10	66,29
132	27/07/2020	Anilox kotor	27/07/2020 20:41	28/07/2020 19:00	22,19
133	28/07/2020	Anilox kotor	28/07/2020 19:16	28/07/2020 23:00	3,44
134	28/07/2020	Anilox kotor	28/07/2020 23:31	29/07/2020 3:00	3,29
135	29/07/2020	Anilox kotor	29/07/2020 3:41	29/07/2020 17:00	13,19
136	29/07/2020	Anilox kotor	29/07/2020 17:21	30/07/2020 1:20	7,59
137	30/07/2020	Anilox kotor	30/07/2020 2:11	01/08/2020 7:00	52,49
Jumlah					5039,48

c. Data MTBF Anilox Roller

No	Tanggal Kerusakan	Jenis Kerusakan	Waktu Mulai Optimal	Waktu Selesai Optimal	Lama Waktu Optimal (Jam)
1	02/01/2020	Anilox kotor	02/01/2020 17:20	03/01/2020 1:20	8,00
2	03/01/2020	Anilox kotor	03/01/2020 2:10	08/01/2020 0:10	118,00
3	08/01/2020	Anilox kotor	08/01/2020 0:30	09/01/2020 23:30	23,00
4	09/01/2020	Anilox kotor	09/01/2020 23:40	10/01/2020 3:00	3,20
5	10/01/2020	Anilox kotor	10/01/2020 3:10	11/01/2020 2:40	23,30
6	11/01/2020	Anilox kotor	11/01/2020 2:50	11/01/2020 3:40	0,50
7	11/01/2020	Anilox kotor	11/01/2020 4:10	14/01/2020 0:30	68,20
8	14/01/2020	Anilox kotor	14/01/2020 0:50	27/01/2020 4:00	315,10
9	27/01/2020	Anilox kotor	27/01/2020 4:30	28/01/2020 8:10	27,40
10	28/01/2020	Anilox kotor	28/01/2020 8:25	29/01/2020 1:00	16,35
11	29/01/2020	Anilox kotor	29/01/2020 2:00	30/01/2020 9:25	31,25
12	30/01/2020	Anilox kotor	30/01/2020 9:45	30/01/2020 19:00	9,15
13	30/01/2020	Anilox kotor	30/01/2020 19:20	31/01/2020 1:30	6,10
14	31/01/2020	Anilox kotor	31/01/2020 1:45	01/02/2020 10:00	32,15
15	01/02/2020	Anilox kotor	01/02/2020 10:20	11/02/2020 23:20	253,00
16	11/02/2020	Anilox kotor	11/02/2020 23:50	12/02/2020 11:10	11,20
17	12/02/2020	Anilox kotor	12/02/2020 11:20	12/02/2020 16:30	5,10
18	12/02/2020	Anilox kotor	12/02/2020 16:40	12/02/2020 20:00	3,20
19	12/02/2020	Anilox kotor	12/02/2020 20:30	14/02/2020 1:20	28,50

20	14/02/2020	Anilox kotor	14/02/2020 1:50	18/02/2020 21:10	115,20
21	18/02/2020	Anilox kotor	18/02/2020 21:40	20/02/2020 3:40	30,00
22	20/02/2020	Anilox kotor	20/02/2020 4:30	21/02/2020 20:20	39,50
23	21/02/2020	Anilox kotor	21/02/2020 20:40	04/03/2020 1:10	268,30
24	04/03/2020	Anilox kotor	04/03/2020 1:25	04/03/2020 2:20	0,55
25	04/03/2020	Anilox kotor	04/03/2020 2:35	06/03/2020 1:20	46,45
26	06/03/2020	Anilox kotor	06/03/2020 1:35	07/03/2020 20:10	42,35
27	07/03/2020	Anilox kotor	07/03/2020 20:40	12/03/2020 19:00	118,20
28	12/03/2020	Anilox kotor	12/03/2020 19:15	13/03/2020 23:00	27,45
29	13/03/2020	Anilox kotor	13/03/2020 23:30	14/03/2020 3:00	3,30
30	14/03/2020	Anilox kotor	14/03/2020 3:40	18/03/2020 8:30	100,50
31	18/03/2020	Anilox kotor	18/03/2020 9:00	19/03/2020 2:10	17,10
32	19/03/2020	Anilox kotor	19/03/2020 2:25	20/03/2020 21:10	42,45
33	20/03/2020	Anilox kotor	20/03/2020 21:40	21/03/2020 3:40	6,00
34	21/03/2020	Anilox kotor	21/03/2020 4:30	23/03/2020 20:20	63,50
35	23/03/2020	Anilox kotor	23/03/2020 20:40	25/03/2020 1:10	28,30
36	25/03/2020	Anilox kotor	25/03/2020 1:25	25/03/2020 2:20	0,55
37	25/03/2020	Anilox kotor	25/03/2020 2:35	26/03/2020 1:20	22,45
38	25/03/2020	Anilox kotor	25/03/2020 2:35	26/03/2020 20:10	41,35
39	26/03/2020	Anilox kotor	26/03/2020 20:40	27/03/2020 19:00	22,20
40	27/03/2020	Anilox kotor	27/03/2020 19:15	30/03/2020 23:00	75,45
41	30/03/2020	Anilox kotor	30/03/2020 23:30	31/03/2020 3:00	3,30
42	31/03/2020	Anilox kotor	31/03/2020 3:40	31/03/2020 17:00	13,20
43	31/03/2020	Anilox kotor	31/03/2020 17:20	31/03/2020 23:20	6,00
44	31/03/2020	Anilox kotor	31/03/2020 23:30	01/04/2020 0:10	0,40
45	01/04/2020	Anilox kotor	01/04/2020 0:30	01/04/2020 23:30	23,00
46	01/04/2020	Anilox kotor	01/04/2020 23:40	02/04/2020 2:40	3,00
47	02/04/2020	Anilox kotor	02/04/2020 3:10	02/04/2020 6:10	3,00
48	02/04/2020	Anilox kotor	02/04/2020 6:50	02/04/2020 19:40	12,50
49	02/04/2020	Anilox kotor	02/04/2020 20:10	03/04/2020 0:30	4,20
50	03/04/2020	Anilox kotor	03/04/2020 0:50	03/04/2020 4:00	3,10
51	03/04/2020	Anilox kotor	03/04/2020 4:30	04/04/2020 8:10	27,40
52	04/04/2020	Anilox kotor	04/04/2020 8:25	04/04/2020 23:00	14,35
53	04/04/2020	Anilox kotor	04/04/2020 23:35	06/04/2020 9:25	33,50
54	06/04/2020	Anilox kotor	06/04/2020 9:45	07/04/2020 19:00	33,15
55	07/04/2020	Anilox kotor	07/04/2020 19:20	07/04/2020 23:30	4,10
56	07/04/2020	Anilox kotor	07/04/2020 23:50	20/04/2020 10:00	298,10
57	20/04/2020	Anilox kotor	20/04/2020 10:20	20/04/2020 23:20	13,00
58	20/04/2020	Anilox kotor	20/04/2020 23:50	21/04/2020 11:10	11,20
59	21/04/2020	Anilox kotor	21/04/2020 11:20	22/04/2020 8:30	21,10
60	22/04/2020	Anilox kotor	22/04/2020 9:00	22/04/2020 23:10	14,10
61	22/04/2020	Anilox kotor	22/04/2020 23:50	08/05/2020 21:10	381,20
62	08/05/2020	Anilox kotor	08/05/2020 21:40	11/05/2020 3:40	54,00
63	11/05/2020	Anilox kotor	11/05/2020 4:30	14/05/2020 20:20	87,50
64	14/05/2020	Anilox kotor	14/05/2020 20:40	18/05/2020 1:10	76,30
65	18/05/2020	Anilox kotor	18/05/2020 1:25	18/05/2020 2:20	0,55
66	18/05/2020	Anilox kotor	18/05/2020 2:35	20/05/2020 1:20	46,45
67	20/05/2020	Anilox kotor	20/05/2020 1:30	21/05/2020 20:10	42,40
68	21/05/2020	Anilox kotor	21/05/2020 20:40	03/06/2020 19:00	310,20
69	03/06/2020	Anilox kotor	03/06/2020 19:15	05/06/2020 3:00	31,45
70	05/06/2020	Anilox kotor	05/06/2020 3:30	05/06/2020 23:00	19,30
71	05/06/2020	Anilox kotor	05/06/2020 23:40	09/06/2020 17:00	89,20
72	09/06/2020	Anilox kotor	09/06/2020 17:20	10/06/2020 1:20	8,00
73	10/06/2020	Anilox kotor	10/06/2020 2:10	11/06/2020 0:10	22,00
74	11/06/2020	Anilox kotor	11/06/2020 0:30	11/06/2020 3:30	3,00

75	11/06/2020	Anilox kotor	11/06/2020 4:00	11/06/2020 17:00	13,00
76	11/06/2020	Anilox kotor	11/06/2020 17:10	12/06/2020 2:40	9,30
77	12/06/2020	Anilox kotor	12/06/2020 2:50	15/06/2020 3:40	72,50
78	15/06/2020	Anilox kotor	15/06/2020 4:10	15/06/2020 10:30	6,20
79	15/06/2020	Anilox kotor	15/06/2020 10:50	16/06/2020 8:30	21,40
80	16/06/2020	Anilox kotor	16/06/2020 9:00	17/06/2020 2:10	17,10
81	17/06/2020	Anilox kotor	17/06/2020 2:25	17/06/2020 21:10	18,45
82	17/06/2020	Anilox kotor	17/06/2020 21:40	18/06/2020 3:40	6,00
83	18/06/2020	Anilox kotor	18/06/2020 4:30	19/06/2020 1:20	20,50
84	19/06/2020	Anilox kotor	19/06/2020 2:00	19/06/2020 21:10	19,10
85	19/06/2020	Anilox kotor	19/06/2020 21:25	22/06/2020 2:20	52,55
86	22/06/2020	Anilox kotor	22/06/2020 2:35	22/06/2020 20:20	17,45
87	22/06/2020	Anilox kotor	22/06/2020 21:35	23/06/2020 20:10	22,35
88	23/06/2020	Anilox kotor	23/06/2020 20:40	23/06/2020 23:10	2,30
89	23/06/2020	Anilox kotor	23/06/2020 23:35	24/06/2020 23:00	23,25
90	24/06/2020	Anilox kotor	24/06/2020 23:30	25/06/2020 3:00	3,30
91	25/06/2020	Anilox kotor	25/06/2020 3:40	27/06/2020 17:00	61,20
92	27/06/2020	Anilox kotor	27/06/2020 17:20	01/07/2020 1:20	80,00
93	01/07/2020	Anilox kotor	01/07/2020 2:10	01/07/2020 10:10	8,00
94	01/07/2020	Anilox kotor	01/07/2020 10:30	01/07/2020 23:30	13,00
95	01/07/2020	Anilox kotor	01/07/2020 23:40	03/07/2020 3:00	27,20
96	03/07/2020	Anilox kotor	03/07/2020 3:10	03/07/2020 9:40	6,30
97	03/07/2020	Anilox kotor	03/07/2020 9:50	03/07/2020 10:40	0,50
98	03/07/2020	Anilox kotor	03/07/2020 11:00	03/07/2020 14:30	3,30
99	03/07/2020	Anilox kotor	03/07/2020 14:50	03/07/2020 17:30	2,40
100	03/07/2020	Anilox kotor	03/07/2020 17:50	03/07/2020 23:00	5,10
101	03/07/2020	Anilox kotor	03/07/2020 23:35	04/07/2020 1:00	1,25
102	04/07/2020	Anilox kotor	04/07/2020 2:00	04/07/2020 8:30	6,30
103	04/07/2020	Anilox kotor	04/07/2020 9:00	07/07/2020 2:10	65,10
104	07/07/2020	Anilox kotor	07/07/2020 2:25	07/07/2020 21:10	18,45
105	07/07/2020	Anilox kotor	07/07/2020 21:40	11/07/2020 3:40	78,00
106	11/07/2020	Anilox kotor	11/07/2020 4:30	11/07/2020 20:20	15,50
107	11/07/2020	Anilox kotor	11/07/2020 20:40	12/07/2020 1:10	4,30
108	12/07/2020	Anilox kotor	12/07/2020 1:25	12/07/2020 2:20	0,55
109	12/07/2020	Anilox kotor	12/07/2020 2:35	13/07/2020 1:20	22,45
110	13/07/2020	Anilox kotor	13/07/2020 1:45	13/07/2020 20:10	18,25
111	13/07/2020	Anilox kotor	13/07/2020 20:40	13/07/2020 23:15	2,35
112	13/07/2020	Anilox kotor	13/07/2020 23:35	14/07/2020 3:00	3,25
113	14/07/2020	Anilox kotor	14/07/2020 3:30	14/07/2020 23:00	19,30
114	14/07/2020	Anilox kotor	14/07/2020 23:40	15/07/2020 1:50	2,10
115	15/07/2020	Anilox kotor	15/07/2020 2:20	15/07/2020 17:20	15,00
116	15/07/2020	Anilox kotor	15/07/2020 18:00	15/07/2020 23:10	5,10
117	15/07/2020	Anilox kotor	15/07/2020 23:30	16/07/2020 3:30	4,00
118	16/07/2020	Anilox kotor	16/07/2020 3:40	16/07/2020 11:15	7,35
119	16/07/2020	Anilox kotor	16/07/2020 11:40	16/07/2020 17:40	6,00
120	16/07/2020	Anilox kotor	16/07/2020 18:00	16/07/2020 20:40	2,40
121	16/07/2020	Anilox kotor	16/07/2020 21:10	16/07/2020 23:30	2,20
122	16/07/2020	Anilox kotor	16/07/2020 23:50	17/07/2020 4:00	4,10
123	17/07/2020	Anilox kotor	17/07/2020 4:30	20/07/2020 8:30	76,00
124	20/07/2020	Anilox kotor	20/07/2020 9:00	20/07/2020 23:10	14,10
125	20/07/2020	Anilox kotor	20/07/2020 23:55	21/07/2020 5:10	5,15
126	21/07/2020	Anilox kotor	21/07/2020 5:40	21/07/2020 23:15	17,35
127	21/07/2020	Anilox kotor	21/07/2020 23:55	22/07/2020 20:20	20,25
128	22/07/2020	Anilox kotor	22/07/2020 20:40	22/07/2020 22:10	1,30
129	22/07/2020	Anilox kotor	22/07/2020 22:25	23/07/2020 2:20	3,55

130	23/07/2020	Anilox kotor	23/07/2020 2:35	25/07/2020 1:20	46,45
131	25/07/2020	Anilox kotor	25/07/2020 1:40	27/07/2020 20:10	66,30
132	27/07/2020	Anilox kotor	27/07/2020 20:40	28/07/2020 19:00	22,20
133	28/07/2020	Anilox kotor	28/07/2020 19:15	28/07/2020 23:00	3,45
134	28/07/2020	Anilox kotor	28/07/2020 23:30	29/07/2020 3:00	3,30
135	29/07/2020	Anilox kotor	29/07/2020 3:40	29/07/2020 17:00	13,20
136	29/07/2020	Anilox kotor	29/07/2020 17:20	30/07/2020 1:20	8,00
137	30/07/2020	Anilox kotor	30/07/2020 2:10	01/08/2020 7:00	52,50
Jumlah					5042,05

2. Data Flexo Plate

a. Data MTTR Flexo Plate

No	Tanggal Kerusakan	Jenis Kerusakan	Waktu Mulai Kerusakan	Waktu Selesai Kerusakan	Lama Perbaikan (Menit)
1	06/01/2020	Profil Kotor	1:01	1:05	04
2	10/01/2020	Profil Kotor	2:03	2:10	07
3	10/01/2020	Profil Kotor	3:05	3:15	10
4	17/01/2020	Profil Kotor	4:07	4:20	13
5	17/01/2020	Profil Kotor	5:09	5:25	16
6	28/01/2020	Profil Kotor	6:11	6:30	19
7	30/01/2020	Profil Kotor	7:13	7:35	22
8	31/01/2020	Profil Kotor	8:15	8:40	25
9	31/01/2020	Profil Kotor	9:17	9:45	28
10	31/01/2020	Profil Kotor	10:19	10:50	31
11	31/01/2020	Profil Kotor	11:21	11:55	34
12	03/02/2020	Profil Kotor	12:23	13:00	37
13	04/02/2020	Profil Kotor	13:25	14:05	40
14	07/02/2020	Profil Kotor	14:27	15:10	43
15	07/02/2020	Profil Kotor	15:29	16:15	46
16	08/02/2020	Profil Kotor	16:31	17:20	49
17	09/02/2020	Profil Kotor	17:33	18:25	52
18	10/02/2020	Profil Kotor	18:35	19:30	55
19	10/02/2020	Profil Kotor	19:37	20:35	58
20	12/02/2020	Profil Kotor	20:39	21:20	41
21	12/02/2020	Profil Kotor	21:41	22:25	44
22	14/02/2020	Profil Kotor	22:43	23:10	27
23	17/02/2020	Profil Kotor	23:45	0:15	30
24	19/02/2020	Profil Kotor	1:47	2:00	13
25	20/02/2020	Profil Kotor	2:49	3:05	16
26	20/02/2020	Profil Kotor	23:10	23:50	40
27	24/02/2020	Profil Kotor	3:53	4:25	32
28	26/02/2020	Profil Kotor	4:55	5:20	25
29	28/02/2020	Profil Kotor	5:57	6:25	28
30	06/03/2020	Profil Kotor	3:00	3:40	40
31	07/03/2020	Profil Kotor	8:30	9:00	30
32	07/03/2020	Profil Kotor	21:10	21:25	15
33	14/03/2020	Profil Kotor	21:10	21:40	30
34	17/03/2020	Profil Kotor	3:40	4:30	50
35	18/03/2020	Profil Kotor	20:20	20:40	20
36	18/03/2020	Profil Kotor	23:10	23:35	25
37	19/03/2020	Profil Kotor	2:20	2:35	15
38	19/03/2020	Profil Kotor	21:20	21:35	15
39	20/03/2020	Profil Kotor	20:10	20:40	30
40	21/03/2020	Profil Kotor	19:00	19:15	15
41	23/03/2020	Profil Kotor	23:00	23:30	30

42	24/03/2020	Profil Kotor	3:00	3:40	40
43	25/03/2020	Profil Kotor	17:00	17:20	20
44	26/03/2020	Profil Kotor	1:20	2:10	50
45	26/03/2020	Profil Kotor	20:10	20:30	20
46	27/03/2020	Profil Kotor	23:30	23:40	10
47	30/03/2020	Profil Kotor	3:00	3:10	10
48	31/03/2020	Profil Kotor	2:40	2:50	10
49	01/04/2020	Profil Kotor	3:40	4:10	30
50	02/04/2020	Profil Kotor	0:30	0:50	20
51	03/04/2020	Profil Kotor	4:00	4:30	30
52	04/04/2020	Profil Kotor	8:10	8:25	15
53	06/04/2020	Profil Kotor	1:00	2:00	1:00
54	07/04/2020	Profil Kotor	9:25	9:45	20
55	14/04/2020	Profil Kotor	19:00	19:20	20
56	14/04/2020	Profil Kotor	23:10	23:50	40
57	20/04/2020	Profil Kotor	10:00	10:20	20
58	20/04/2020	Profil Kotor	23:20	23:50	30
59	23/04/2020	Profil Kotor	11:10	11:20	10
60	01/05/2020	Profil Kotor	8:30	9:00	30
61	14/05/2020	Profil Kotor	3:00	3:30	30
62	14/05/2020	Profil Kotor	23:00	23:40	40
63	18/05/2020	Profil Kotor	17:00	17:20	20
64	18/05/2020	Profil Kotor	22:20	22:35	15
65	19/05/2020	Profil Kotor	0:10	0:30	20
66	19/05/2020	Profil Kotor	23:30	23:40	10
67	02/06/2020	Profil Kotor	3:00	3:10	10
68	05/06/2020	Profil Kotor	2:40	2:50	10
69	10/06/2020	Profil Kotor	3:40	4:10	30
70	10/06/2020	Profil Kotor	20:30	20:50	20
71	11/06/2020	Profil Kotor	8:30	9:00	30
72	11/06/2020	Profil Kotor	23:15	23:25	10
73	12/06/2020	Profil Kotor	21:10	21:40	30
74	13/06/2020	Profil Kotor	3:40	4:30	50
75	17/06/2020	Profil Kotor	1:20	1:40	20
76	17/06/2020	Profil Kotor	17:10	17:25	15
77	17/06/2020	Profil Kotor	23:20	23:35	15
78	18/06/2020	Profil Kotor	0:20	0:35	15
79	22/06/2020	Profil Kotor	20:10	20:40	30
80	23/06/2020	Profil Kotor	19:00	19:15	15
81	24/06/2020	Profil Kotor	23:00	23:30	30
82	25/06/2020	Profil Kotor	3:00	3:40	40
83	25/06/2020	Profil Kotor	17:00	17:20	20
84	26/06/2020	Profil Kotor	1:20	2:10	50
85	27/06/2020	Profil Kotor	0:10	0:30	20
86	29/06/2020	Profil Kotor	23:30	23:40	10
87	01/07/2020	Profil Kotor	3:00	3:10	10
88	03/07/2020	Profil Kotor	2:40	2:50	10
89	03/07/2020	Profil Kotor	3:40	4:10	30
90	03/07/2020	Profil Kotor	20:30	20:50	20
91	04/07/2020	Profil Kotor	3:00	3:10	10
92	07/07/2020	Profil Kotor	2:40	2:50	10
93	10/07/2020	Profil Kotor	3:40	4:10	30
94	11/07/2020	Profil Kotor	0:30	0:50	20
95	12/07/2020	Profil Kotor	4:00	4:30	30
96	13/07/2020	Profil Kotor	8:30	9:00	30

97	15/07/2020	Profil Kotor	2:10	2:25	15
98	15/07/2020	Profil Kotor	21:10	21:40	30
99	16/07/2020	Profil Kotor	3:40	4:30	50
100	17/07/2020	Profil Kotor	20:20	20:40	20
101	20/07/2020	Profil Kotor	1:10	1:25	15
102	21/07/2020	Profil Kotor	2:20	2:35	15
103	24/07/2020	Profil Kotor	1:20	1:40	20
104	25/07/2020	Profil Kotor	20:10	20:40	30
105	28/07/2020	Profil Kotor	19:00	19:15	15
106	29/07/2020	Profil Kotor	3:00	3:30	30
107	29/07/2020	Profil Kotor	23:00	23:40	40
Jumlah					2710

b. Data MTTF *Flexo Plate*

No	Tanggal Kerusakan	Jenis Kerusakan	Waktu Mulai Optimal	Waktu Selesai Optimal	Waktu Lama Optimal (Jam)
1	06/01/2020	Profil Kotor	06/01/2020 1:06	10/01/2020 2:03	96,57
2	10/01/2020	Profil Kotor	10/01/2020 2:11	10/01/2020 3:05	0,54
3	10/01/2020	Profil Kotor	10/01/2020 3:16	17/01/2020 4:07	168,51
4	17/01/2020	Profil Kotor	17/01/2020 4:21	17/01/2020 5:09	0,48
5	17/01/2020	Profil Kotor	17/01/2020 5:26	28/01/2020 6:11	264,45
6	28/01/2020	Profil Kotor	28/01/2020 6:31	30/01/2020 7:13	48,42
7	30/01/2020	Profil Kotor	30/01/2020 7:36	31/01/2020 8:15	24,39
8	31/01/2020	Profil Kotor	31/01/2020 8:41	31/01/2020 9:17	0,36
9	31/01/2020	Profil Kotor	31/01/2020 9:46	31/01/2020 10:19	0,33
10	31/01/2020	Profil Kotor	31/01/2020 10:51	31/01/2020 11:21	0,30
11	31/01/2020	Profil Kotor	31/01/2020 11:56	03/02/2020 12:23	72,27
12	03/02/2020	Profil Kotor	03/02/2020 13:01	04/02/2020 13:25	24,24
13	04/02/2020	Profil Kotor	04/02/2020 14:06	07/02/2020 14:27	72,21
14	07/02/2020	Profil Kotor	07/02/2020 15:11	07/02/2020 15:29	0,18
15	07/02/2020	Profil Kotor	07/02/2020 16:16	08/02/2020 16:31	24,15
16	08/02/2020	Profil Kotor	08/02/2020 17:21	09/02/2020 17:33	24,12
17	09/02/2020	Profil Kotor	09/02/2020 18:26	10/02/2020 18:35	24,09
18	10/02/2020	Profil Kotor	10/02/2020 19:31	10/02/2020 19:37	0,06
19	10/02/2020	Profil Kotor	10/02/2020 20:36	12/02/2020 20:39	48,03
20	12/02/2020	Profil Kotor	12/02/2020 21:21	12/02/2020 21:41	0,20
21	12/02/2020	Profil Kotor	12/02/2020 22:26	14/02/2020 22:43	48,17
22	14/02/2020	Profil Kotor	14/02/2020 23:11	17/02/2020 23:45	72,34
23	17/02/2020	Profil Kotor	17/02/2020 0:16	19/02/2020 1:47	49,31
24	19/02/2020	Profil Kotor	19/02/2020 2:01	20/02/2020 2:49	24,48
25	20/02/2020	Profil Kotor	20/02/2020 3:06	20/02/2020 23:10	20,04
26	20/02/2020	Profil Kotor	20/02/2020 23:51	24/02/2020 3:53	76,02
27	24/02/2020	Profil Kotor	24/02/2020 4:26	26/02/2020 4:55	48,29
28	26/02/2020	Profil Kotor	26/02/2020 5:21	28/02/2020 5:57	48,36
29	28/02/2020	Profil Kotor	28/02/2020 6:26	06/03/2020 3:00	164,34
30	06/03/2020	Profil Kotor	06/03/2020 3:41	07/03/2020 8:30	28,49
31	07/03/2020	Profil Kotor	07/03/2020 9:01	07/03/2020 21:10	12,09
32	07/03/2020	Profil Kotor	07/03/2020 21:26	14/03/2020 21:10	167,44
33	14/03/2020	Profil Kotor	14/03/2020 21:41	17/03/2020 3:40	53,59
34	17/03/2020	Profil Kotor	17/03/2020 4:31	18/03/2020 20:20	39,49
35	18/03/2020	Profil Kotor	18/03/2020 20:41	18/03/2020 23:10	2,29
36	18/03/2020	Profil Kotor	18/03/2020 23:36	19/03/2020 2:20	2,44
37	19/03/2020	Profil Kotor	19/03/2020 2:36	19/03/2020 21:20	18,44

38	19/03/2020	Profil Kotor	19/03/2020 21:36	20/03/2020 20:10	22,34
39	20/03/2020	Profil Kotor	20/03/2020 20:41	21/03/2020 19:00	22,19
40	21/03/2020	Profil Kotor	21/03/2020 19:16	23/03/2020 23:00	51,44
41	23/03/2020	Profil Kotor	23/03/2020 23:31	24/03/2020 3:00	3,29
42	24/03/2020	Profil Kotor	24/03/2020 3:41	25/03/2020 17:00	37,19
43	25/03/2020	Profil Kotor	25/03/2020 17:21	26/03/2020 1:20	7,59
44	26/03/2020	Profil Kotor	26/03/2020 2:11	26/03/2020 20:10	17,59
45	26/03/2020	Profil Kotor	26/03/2020 20:31	27/03/2020 23:30	26,59
46	27/03/2020	Profil Kotor	27/03/2020 23:41	30/03/2020 3:00	51,19
47	30/03/2020	Profil Kotor	30/03/2020 3:11	31/03/2020 2:40	23,29
48	31/03/2020	Profil Kotor	31/03/2020 2:51	01/04/2020 3:40	24,49
49	01/04/2020	Profil Kotor	01/04/2020 4:11	02/04/2020 0:30	20,19
50	02/04/2020	Profil Kotor	02/04/2020 0:51	03/04/2020 4:00	27,09
51	03/04/2020	Profil Kotor	03/04/2020 4:31	04/04/2020 8:10	27,39
52	04/04/2020	Profil Kotor	04/04/2020 8:26	06/04/2020 1:00	40,34
53	06/04/2020	Profil Kotor	06/04/2020 2:01	07/04/2020 9:25	31,24
54	07/04/2020	Profil Kotor	07/04/2020 9:46	14/04/2020 19:00	177,14
55	14/04/2020	Profil Kotor	14/04/2020 19:21	14/04/2020 23:10	3,49
56	14/04/2020	Profil Kotor	14/04/2020 23:51	20/04/2020 10:00	130,09
57	20/04/2020	Profil Kotor	20/04/2020 10:21	20/04/2020 23:20	12,59
58	20/04/2020	Profil Kotor	20/04/2020 23:51	23/04/2020 11:10	59,19
59	23/04/2020	Profil Kotor	23/04/2020 11:21	01/05/2020 8:30	189,09
60	01/05/2020	Profil Kotor	01/05/2020 9:01	14/05/2020 3:00	305,59
61	14/05/2020	Profil Kotor	14/05/2020 3:31	14/05/2020 23:00	19,29
62	14/05/2020	Profil Kotor	14/05/2020 23:41	18/05/2020 17:00	89,19
63	18/05/2020	Profil Kotor	18/05/2020 17:21	18/05/2020 22:20	4,59
64	18/05/2020	Profil Kotor	18/05/2020 22:36	19/05/2020 0:10	1,34
65	19/05/2020	Profil Kotor	19/05/2020 0:31	19/05/2020 23:30	22,59
66	19/05/2020	Profil Kotor	19/05/2020 23:41	02/06/2020 3:00	315,19
67	02/06/2020	Profil Kotor	02/06/2020 3:11	05/06/2020 2:40	71,29
68	05/06/2020	Profil Kotor	05/06/2020 2:51	10/06/2020 3:40	120,49
69	10/06/2020	Profil Kotor	10/06/2020 4:11	10/06/2020 20:30	16,19
70	10/06/2020	Profil Kotor	10/06/2020 20:51	11/06/2020 8:30	11,39
71	11/06/2020	Profil Kotor	11/06/2020 9:01	11/06/2020 23:15	14,14
72	11/06/2020	Profil Kotor	11/06/2020 23:26	12/06/2020 21:10	21,44
73	12/06/2020	Profil Kotor	12/06/2020 21:41	13/06/2020 3:40	5,59
74	13/06/2020	Profil Kotor	13/06/2020 4:31	17/06/2020 1:20	92,49
75	17/06/2020	Profil Kotor	17/06/2020 1:41	17/06/2020 17:10	15,29
76	17/06/2020	Profil Kotor	17/06/2020 17:26	17/06/2020 23:20	5,54
77	17/06/2020	Profil Kotor	17/06/2020 23:36	18/06/2020 0:20	0,44
78	18/06/2020	Profil Kotor	18/06/2020 0:36	22/06/2020 20:10	115,34
79	22/06/2020	Profil Kotor	22/06/2020 20:41	23/06/2020 19:00	22,19
80	23/06/2020	Profil Kotor	23/06/2020 19:16	24/06/2020 23:00	27,44
81	24/06/2020	Profil Kotor	24/06/2020 23:31	25/06/2020 3:00	3,29
82	25/06/2020	Profil Kotor	25/06/2020 3:41	25/06/2020 17:00	13,19
83	25/06/2020	Profil Kotor	25/06/2020 17:21	26/06/2020 1:20	7,59
84	26/06/2020	Profil Kotor	26/06/2020 2:11	27/06/2020 0:10	21,59
85	27/06/2020	Profil Kotor	27/06/2020 0:31	29/06/2020 23:30	70,59
86	29/06/2020	Profil Kotor	29/06/2020 23:41	01/07/2020 3:00	27,19
87	01/07/2020	Profil Kotor	01/07/2020 3:11	03/07/2020 2:40	47,29
88	03/07/2020	Profil Kotor	03/07/2020 2:51	03/07/2020 3:40	0,49
89	03/07/2020	Profil Kotor	03/07/2020 4:11	03/07/2020 20:30	16,19
90	03/07/2020	Profil Kotor	03/07/2020 20:51	04/07/2020 3:00	6,09
91	04/07/2020	Profil Kotor	04/07/2020 3:11	07/07/2020 2:40	71,29
92	07/07/2020	Profil Kotor	07/07/2020 2:51	10/07/2020 3:40	72,49

93	10/07/2020	Profil Kotor	10/07/2020 4:11	11/07/2020 0:30	20,19
94	11/07/2020	Profil Kotor	11/07/2020 0:51	12/07/2020 4:00	27,09
95	12/07/2020	Profil Kotor	12/07/2020 4:31	13/07/2020 8:30	27,59
96	13/07/2020	Profil Kotor	13/07/2020 9:01	15/07/2020 2:10	41,09
97	15/07/2020	Profil Kotor	15/07/2020 2:26	15/07/2020 21:10	18,44
98	15/07/2020	Profil Kotor	15/07/2020 21:41	16/07/2020 3:40	5,59
99	16/07/2020	Profil Kotor	16/07/2020 4:31	17/07/2020 20:20	39,49
100	17/07/2020	Profil Kotor	17/07/2020 20:41	20/07/2020 1:10	52,29
101	20/07/2020	Profil Kotor	20/07/2020 1:26	21/07/2020 2:20	24,54
102	21/07/2020	Profil Kotor	21/07/2020 2:36	24/07/2020 1:20	70,44
103	24/07/2020	Profil Kotor	24/07/2020 1:41	25/07/2020 20:10	42,29
104	25/07/2020	Profil Kotor	25/07/2020 20:41	28/07/2020 19:00	70,19
105	28/07/2020	Profil Kotor	28/07/2020 19:16	29/07/2020 3:00	7,44
106	29/07/2020	Profil Kotor	29/07/2020 3:31	29/07/2020 23:00	19,29
107	29/07/2020	Profil Kotor	29/07/2020 23:41	01/08/2020 7:00	55,19
Jumlah					4974,02

c. Data MTBF Flexo Plate

No	Tanggal Kerusakan	Jenis Kerusakan	Waktu Mulai Optimal	Waktu Selesai Optimal	Waktu Lama Optimal (Jam)
1	06/01/2020	Profil Kotor	06/01/2020 1:05	10/01/2020 2:03	96,58
2	10/01/2020	Profil Kotor	10/01/2020 2:10	10/01/2020 3:05	0,55
3	10/01/2020	Profil Kotor	10/01/2020 3:15	17/01/2020 4:07	168,52
4	17/01/2020	Profil Kotor	17/01/2020 4:20	17/01/2020 5:09	0,49
5	17/01/2020	Profil Kotor	17/01/2020 5:25	28/01/2020 6:11	264,46
6	28/01/2020	Profil Kotor	28/01/2020 6:30	30/01/2020 7:13	48,43
7	30/01/2020	Profil Kotor	30/01/2020 7:35	31/01/2020 8:15	24,40
8	31/01/2020	Profil Kotor	31/01/2020 8:40	31/01/2020 9:17	0,37
9	31/01/2020	Profil Kotor	31/01/2020 9:45	31/01/2020 10:19	0,34
10	31/01/2020	Profil Kotor	31/01/2020 10:50	31/01/2020 11:21	0,31
11	31/01/2020	Profil Kotor	31/01/2020 11:55	03/02/2020 12:23	72,28
12	03/02/2020	Profil Kotor	03/02/2020 13:00	04/02/2020 13:25	24,25
13	04/02/2020	Profil Kotor	04/02/2020 14:05	07/02/2020 14:27	72,22
14	07/02/2020	Profil Kotor	07/02/2020 15:10	07/02/2020 15:29	0,19
15	07/02/2020	Profil Kotor	07/02/2020 16:15	08/02/2020 16:31	24,16
16	08/02/2020	Profil Kotor	08/02/2020 17:20	09/02/2020 17:33	24,13
17	09/02/2020	Profil Kotor	09/02/2020 18:25	10/02/2020 18:35	24,10
18	10/02/2020	Profil Kotor	10/02/2020 19:30	10/02/2020 19:37	0,07
19	10/02/2020	Profil Kotor	10/02/2020 20:35	12/02/2020 20:39	48,04
20	12/02/2020	Profil Kotor	12/02/2020 21:20	12/02/2020 21:41	0,21
21	12/02/2020	Profil Kotor	12/02/2020 22:25	14/02/2020 22:43	48,18
22	14/02/2020	Profil Kotor	14/02/2020 23:10	17/02/2020 23:45	72,35
23	17/02/2020	Profil Kotor	17/02/2020 0:15	19/02/2020 1:47	49,32
24	19/02/2020	Profil Kotor	19/02/2020 2:00	20/02/2020 2:49	24,49
25	20/02/2020	Profil Kotor	20/02/2020 3:05	20/02/2020 23:10	20,05
26	20/02/2020	Profil Kotor	20/02/2020 23:50	24/02/2020 3:53	76,03
27	24/02/2020	Profil Kotor	24/02/2020 4:25	26/02/2020 4:55	48,30
28	26/02/2020	Profil Kotor	26/02/2020 5:20	28/02/2020 5:57	48,37
29	28/02/2020	Profil Kotor	28/02/2020 6:25	06/03/2020 3:00	164,35
30	06/03/2020	Profil Kotor	06/03/2020 3:40	07/03/2020 8:30	28,50
31	07/03/2020	Profil Kotor	07/03/2020 9:00	07/03/2020 21:10	12,10
32	07/03/2020	Profil Kotor	07/03/2020 21:25	14/03/2020 21:10	167,45
33	14/03/2020	Profil Kotor	14/03/2020 21:40	17/03/2020 3:40	54,00

34	17/03/2020	Profil Kotor	17/03/2020 4:30	18/03/2020 20:20	39,50
35	18/03/2020	Profil Kotor	18/03/2020 20:40	18/03/2020 23:10	2,30
36	18/03/2020	Profil Kotor	18/03/2020 23:35	19/03/2020 2:20	2,45
37	19/03/2020	Profil Kotor	19/03/2020 2:35	19/03/2020 21:20	18,45
38	19/03/2020	Profil Kotor	19/03/2020 21:35	20/03/2020 20:10	22,35
39	20/03/2020	Profil Kotor	20/03/2020 20:40	21/03/2020 19:00	22,20
40	21/03/2020	Profil Kotor	21/03/2020 19:15	23/03/2020 23:00	51,45
41	23/03/2020	Profil Kotor	23/03/2020 23:30	24/03/2020 3:00	3,30
42	24/03/2020	Profil Kotor	24/03/2020 3:40	25/03/2020 17:00	37,20
43	25/03/2020	Profil Kotor	25/03/2020 17:20	26/03/2020 1:20	8,00
44	26/03/2020	Profil Kotor	26/03/2020 2:10	26/03/2020 20:10	18,00
45	26/03/2020	Profil Kotor	26/03/2020 20:30	27/03/2020 23:30	27,00
46	27/03/2020	Profil Kotor	27/03/2020 23:40	30/03/2020 3:00	51,20
47	30/03/2020	Profil Kotor	30/03/2020 3:10	31/03/2020 2:40	23,30
48	31/03/2020	Profil Kotor	31/03/2020 2:50	01/04/2020 3:40	24,50
49	01/04/2020	Profil Kotor	01/04/2020 4:10	02/04/2020 0:30	20,20
50	02/04/2020	Profil Kotor	02/04/2020 0:50	03/04/2020 4:00	27,10
51	03/04/2020	Profil Kotor	03/04/2020 4:30	04/04/2020 8:10	27,40
52	04/04/2020	Profil Kotor	04/04/2020 8:25	06/04/2020 1:00	40,35
53	06/04/2020	Profil Kotor	06/04/2020 2:00	07/04/2020 9:25	31,25
54	07/04/2020	Profil Kotor	07/04/2020 9:45	14/04/2020 19:00	177,15
55	14/04/2020	Profil Kotor	14/04/2020 19:20	14/04/2020 23:10	3,50
56	14/04/2020	Profil Kotor	14/04/2020 23:50	20/04/2020 10:00	130,10
57	20/04/2020	Profil Kotor	20/04/2020 10:20	20/04/2020 23:20	13,00
58	20/04/2020	Profil Kotor	20/04/2020 23:50	23/04/2020 11:10	59,20
59	23/04/2020	Profil Kotor	23/04/2020 11:20	01/05/2020 8:30	189,10
60	01/05/2020	Profil Kotor	01/05/2020 9:00	14/05/2020 3:00	306,00
61	14/05/2020	Profil Kotor	14/05/2020 3:30	14/05/2020 23:00	19,30
62	14/05/2020	Profil Kotor	14/05/2020 23:40	18/05/2020 17:00	89,20
63	18/05/2020	Profil Kotor	18/05/2020 17:20	18/05/2020 22:20	5,00
64	18/05/2020	Profil Kotor	18/05/2020 22:35	19/05/2020 0:10	1,35
65	19/05/2020	Profil Kotor	19/05/2020 0:30	19/05/2020 23:30	23,00
66	19/05/2020	Profil Kotor	19/05/2020 23:40	02/06/2020 3:00	315,20
67	02/06/2020	Profil Kotor	02/06/2020 3:10	05/06/2020 2:40	71,30
68	05/06/2020	Profil Kotor	05/06/2020 2:50	10/06/2020 3:40	120,50
69	10/06/2020	Profil Kotor	10/06/2020 4:10	10/06/2020 20:30	16,20
70	10/06/2020	Profil Kotor	10/06/2020 20:50	11/06/2020 8:30	11,40
71	11/06/2020	Profil Kotor	11/06/2020 9:00	11/06/2020 23:15	14,15
72	11/06/2020	Profil Kotor	11/06/2020 23:25	12/06/2020 21:10	21,45
73	12/06/2020	Profil Kotor	12/06/2020 21:40	13/06/2020 3:40	6,00
74	13/06/2020	Profil Kotor	13/06/2020 4:30	17/06/2020 1:20	92,50
75	17/06/2020	Profil Kotor	17/06/2020 1:40	17/06/2020 17:10	15,30
76	17/06/2020	Profil Kotor	17/06/2020 17:25	17/06/2020 23:20	5,55
77	17/06/2020	Profil Kotor	17/06/2020 23:35	18/06/2020 0:20	0,45
78	18/06/2020	Profil Kotor	18/06/2020 0:35	22/06/2020 20:10	115,35
79	22/06/2020	Profil Kotor	22/06/2020 20:40	23/06/2020 19:00	22,20
80	23/06/2020	Profil Kotor	23/06/2020 19:15	24/06/2020 23:00	27,45
81	24/06/2020	Profil Kotor	24/06/2020 23:30	25/06/2020 3:00	3,30
82	25/06/2020	Profil Kotor	25/06/2020 3:40	25/06/2020 17:00	13,20
83	25/06/2020	Profil Kotor	25/06/2020 17:20	26/06/2020 1:20	8,00
84	26/06/2020	Profil Kotor	26/06/2020 2:10	27/06/2020 0:10	22,00
85	27/06/2020	Profil Kotor	27/06/2020 0:30	29/06/2020 23:30	71,00
86	29/06/2020	Profil Kotor	29/06/2020 23:40	01/07/2020 3:00	27,20
87	01/07/2020	Profil Kotor	01/07/2020 3:10	03/07/2020 2:40	47,30
88	03/07/2020	Profil Kotor	03/07/2020 2:50	03/07/2020 3:40	0,50

89	03/07/2020	Profil Kotor	03/07/2020 4:10	03/07/2020 20:30	16,20
90	03/07/2020	Profil Kotor	03/07/2020 20:50	04/07/2020 3:00	6,10
91	04/07/2020	Profil Kotor	04/07/2020 3:10	07/07/2020 2:40	71,30
92	07/07/2020	Profil Kotor	07/07/2020 2:50	10/07/2020 3:40	72,50
93	10/07/2020	Profil Kotor	10/07/2020 4:10	11/07/2020 0:30	20,20
94	11/07/2020	Profil Kotor	11/07/2020 0:50	12/07/2020 4:00	27,10
95	12/07/2020	Profil Kotor	12/07/2020 4:30	13/07/2020 8:30	28,00
96	13/07/2020	Profil Kotor	13/07/2020 9:00	15/07/2020 2:10	41,10
97	15/07/2020	Profil Kotor	15/07/2020 2:25	15/07/2020 21:10	18,45
98	15/07/2020	Profil Kotor	15/07/2020 21:40	16/07/2020 3:40	6,00
99	16/07/2020	Profil Kotor	16/07/2020 4:30	17/07/2020 20:20	39,50
100	17/07/2020	Profil Kotor	17/07/2020 20:40	20/07/2020 1:10	52,30
101	20/07/2020	Profil Kotor	20/07/2020 1:25	21/07/2020 2:20	24,55
102	21/07/2020	Profil Kotor	21/07/2020 2:35	24/07/2020 1:20	70,45
103	24/07/2020	Profil Kotor	24/07/2020 1:40	25/07/2020 20:10	42,30
104	25/07/2020	Profil Kotor	25/07/2020 20:40	28/07/2020 19:00	70,20
105	28/07/2020	Profil Kotor	28/07/2020 19:15	29/07/2020 3:00	7,45
106	29/07/2020	Profil Kotor	29/07/2020 3:30	29/07/2020 23:00	19,30
107	29/07/2020	Profil Kotor	29/07/2020 23:40	01/08/2020 7:00	55,20
Jumlah					4956,69

3. Data Sensor *Limit Switch*

a. Data MTTR Sensor *Limit Switch*

No	Tanggal Kerusakan	Jenis Kerusakan	Waktu Mulai Kerusakan	Waktu Selesai Kerusakan	Lama Perbaikan (Menit)
1	08/01/2020	Sensor Kotor	3:00	3:40	40
2	08/01/2020	Sensor Kotor	8:30	9:00	30
3	22/01/2020	Sensor Kotor	2:10	2:25	15
4	22/01/2020	Sensor Kotor	21:10	21:40	30
5	29/01/2020	Sensor Kotor	3:40	4:30	50
6	30/01/2020	Sensor Kotor	20:20	20:40	20
7	01/02/2020	Sensor Kotor	1:10	1:25	15
8	01/02/2020	Sensor Kotor	2:20	2:35	15
9	03/02/2020	Sensor Kotor	1:20	2:35	75
10	03/02/2020	Sensor Kotor	20:10	20:40	30
11	08/02/2020	Sensor Kotor	19:00	19:15	15
12	13/02/2020	Sensor Kotor	3:00	3:30	30
13	13/02/2020	Sensor Kotor	23:00	23:40	40
14	14/02/2020	Sensor Kotor	17:00	17:20	20
15	26/02/2020	Sensor Kotor	1:20	2:10	50
16	27/02/2020	Sensor Kotor	0:10	0:30	20
17	04/03/2020	Sensor Kotor	2:30	2:40	10
18	04/03/2020	Sensor Kotor	23:00	23:50	50
19	07/03/2020	Sensor Kotor	2:40	2:50	10
20	11/03/2020	Sensor Kotor	3:40	4:10	30
21	12/03/2020	Sensor Kotor	0:30	0:50	20
22	12/03/2020	Sensor Kotor	4:00	4:30	30
23	12/03/2020	Sensor Kotor	8:10	8:25	15
24	13/03/2020	Sensor Kotor	1:00	2:00	60
25	13/03/2020	Sensor Kotor	9:25	9:45	20
26	13/03/2020	Sensor Kotor	19:00	19:20	20
27	16/03/2020	Sensor Kotor	1:30	1:45	15
28	16/03/2020	Sensor Kotor	10:00	10:20	20
29	16/03/2020	Sensor Kotor	23:20	23:50	30

30	17/03/2020	Sensor Kotor	11:10	11:20	10
31	20/03/2020	Sensor Kotor	8:30	9:00	30
32	20/03/2020	Sensor Kotor	18:00	18:10	10
33	23/03/2020	Sensor Kotor	23:40	23:50	10
34	24/03/2020	Sensor Kotor	3:40	4:10	30
35	24/03/2020	Sensor Kotor	20:30	20:50	20
36	26/03/2020	Sensor Kotor	1:01	1:05	04
37	30/03/2020	Sensor Kotor	2:03	2:10	07
38	30/03/2020	Sensor Kotor	3:05	3:15	10
39	31/03/2020	Sensor Kotor	4:07	4:20	13
40	31/03/2020	Sensor Kotor	5:09	5:25	16
41	01/04/2020	Sensor Kotor	6:11	6:30	19
42	01/04/2020	Sensor Kotor	7:13	7:35	22
43	02/04/2020	Sensor Kotor	8:15	8:40	25
44	03/04/2020	Sensor Kotor	9:17	9:45	28
45	03/04/2020	Sensor Kotor	10:19	10:50	31
46	04/04/2020	Sensor Kotor	11:21	11:55	34
47	07/04/2020	Sensor Kotor	12:23	13:00	37
48	07/04/2020	Sensor Kotor	13:25	14:05	40
49	20/04/2020	Sensor Kotor	14:27	15:10	43
50	21/04/2020	Sensor Kotor	15:29	16:15	46
51	21/04/2020	Sensor Kotor	16:31	17:20	49
52	23/04/2020	Sensor Kotor	17:33	18:25	52
53	30/04/2020	Sensor Kotor	18:35	19:30	55
54	30/04/2020	Sensor Kotor	19:37	20:35	58
55	30/04/2020	Sensor Kotor	20:39	21:20	41
56	30/04/2020	Sensor Kotor	21:41	22:25	44
57	14/05/2020	Sensor Kotor	22:43	23:10	27
58	18/05/2020	Sensor Kotor	0:45	1:15	30
59	18/05/2020	Sensor Kotor	8:30	9:00	30
60	18/05/2020	Sensor Kotor	23:00	23:30	30
61	19/05/2020	Sensor Kotor	3:00	3:40	40
62	20/05/2020	Sensor Kotor	17:00	17:20	20
63	20/05/2020	Sensor Kotor	22:20	23:10	50
64	21/05/2020	Sensor Kotor	0:10	0:30	20
65	05/06/2020	Sensor Kotor	23:30	23:40	10
66	08/06/2020	Sensor Kotor	3:00	3:10	10
67	08/06/2020	Sensor Kotor	23:10	23:50	40
68	11/06/2020	Sensor Kotor	3:40	4:10	30
69	12/06/2020	Sensor Kotor	0:30	0:50	20
70	12/06/2020	Sensor Kotor	8:30	9:00	30
71	16/06/2020	Sensor Kotor	2:10	2:25	15
72	16/06/2020	Sensor Kotor	21:10	21:40	30
73	16/06/2020	Sensor Kotor	23:40	23:50	10
74	17/06/2020	Sensor Kotor	1:20	2:10	50
75	18/06/2020	Sensor Kotor	0:10	0:30	20
76	18/06/2020	Sensor Kotor	3:30	3:40	10
77	18/06/2020	Sensor Kotor	23:00	23:10	10
78	23/06/2020	Sensor Kotor	2:40	2:50	10
79	24/06/2020	Sensor Kotor	3:40	4:10	30
80	27/06/2020	Sensor Kotor	0:30	0:50	20
81	03/07/2020	Sensor Kotor	8:30	9:00	30
82	03/07/2020	Sensor Kotor	14:10	14:25	15
83	03/07/2020	Sensor Kotor	21:10	21:40	30
84	12/07/2020	Sensor Kotor	3:40	4:30	50

85	13/07/2020	Sensor Kotor	1:20	1:40	20
86	13/07/2020	Sensor Kotor	17:10	17:45	35
87	13/07/2020	Sensor Kotor	23:20	23:35	15
88	14/07/2020	Sensor Kotor	0:20	0:35	15
89	14/07/2020	Sensor Kotor	20:10	20:40	30
90	16/07/2020	Sensor Kotor	19:00	19:15	15
91	17/07/2020	Sensor Kotor	23:00	23:30	30
92	20/07/2020	Sensor Kotor	3:00	3:40	40
93	20/07/2020	Sensor Kotor	17:00	17:20	20
94	21/07/2020	Sensor Kotor	1:20	2:10	50
95	22/07/2020	Sensor Kotor	0:10	0:30	20
96	25/07/2020	Sensor Kotor	23:30	23:40	10
Jumlah					2626

b. Data MTTF Sensor *Limit Switch*

No	Tanggal Kerusakan	Jenis Kerusakan	Waktu Mulai Optimal	Waktu Selesai Optimal	Waktu Lama Optimal (Jam)
1	08/01/2020	Sensor Kotor	08/01/2020 3:41	08/01/2020 8:30	4,49
2	08/01/2020	Sensor Kotor	08/01/2020 9:01	22/01/2020 2:10	329,09
3	22/01/2020	Sensor Kotor	22/01/2020 2:26	22/01/2020 21:10	18,44
4	22/01/2020	Sensor Kotor	22/01/2020 21:41	29/01/2020 3:40	149,59
5	29/01/2020	Sensor Kotor	29/01/2020 4:31	30/01/2020 20:20	39,49
6	30/01/2020	Sensor Kotor	30/01/2020 20:41	01/02/2020 1:10	28,29
7	01/02/2020	Sensor Kotor	01/02/2020 1:26	01/02/2020 2:20	0,54
8	01/02/2020	Sensor Kotor	01/02/2020 2:36	03/02/2020 1:20	46,44
9	03/02/2020	Sensor Kotor	03/02/2020 2:36	03/02/2020 20:10	17,34
10	03/02/2020	Sensor Kotor	03/02/2020 20:41	08/02/2020 19:00	118,19
11	08/02/2020	Sensor Kotor	08/02/2020 19:16	13/02/2020 3:00	103,44
12	13/02/2020	Sensor Kotor	13/02/2020 3:31	13/02/2020 23:00	19,29
13	13/02/2020	Sensor Kotor	13/02/2020 23:41	14/02/2020 17:00	17,19
14	14/02/2020	Sensor Kotor	14/02/2020 17:21	26/02/2020 1:20	271,59
15	26/02/2020	Sensor Kotor	26/02/2020 2:11	27/02/2020 0:10	21,59
16	27/02/2020	Sensor Kotor	27/02/2020 0:31	04/03/2020 2:30	145,59
17	04/03/2020	Sensor Kotor	04/03/2020 2:41	04/03/2020 23:00	20,19
18	04/03/2020	Sensor Kotor	04/03/2020 23:51	07/03/2020 2:40	50,49
19	07/03/2020	Sensor Kotor	07/03/2020 2:51	11/03/2020 3:40	96,49
20	11/03/2020	Sensor Kotor	11/03/2020 4:11	12/03/2020 0:30	20,19
21	12/03/2020	Sensor Kotor	12/03/2020 0:51	12/03/2020 4:00	3,09
22	12/03/2020	Sensor Kotor	12/03/2020 4:31	12/03/2020 8:10	3,39
23	12/03/2020	Sensor Kotor	12/03/2020 8:26	13/03/2020 1:00	16,34
24	13/03/2020	Sensor Kotor	13/03/2020 2:01	13/03/2020 9:25	7,24
25	13/03/2020	Sensor Kotor	13/03/2020 9:46	13/03/2020 19:00	9,14
26	13/03/2020	Sensor Kotor	13/03/2020 19:21	16/03/2020 1:30	54,09
27	16/03/2020	Sensor Kotor	16/03/2020 1:46	16/03/2020 10:00	8,14
28	16/03/2020	Sensor Kotor	16/03/2020 10:21	16/03/2020 23:20	12,59
29	16/03/2020	Sensor Kotor	16/03/2020 23:51	17/03/2020 11:10	11,19
30	17/03/2020	Sensor Kotor	17/03/2020 11:21	20/03/2020 8:30	69,09
31	20/03/2020	Sensor Kotor	20/03/2020 9:01	20/03/2020 18:00	8,59
32	20/03/2020	Sensor Kotor	20/03/2020 18:11	23/03/2020 23:40	77,29
33	23/03/2020	Sensor Kotor	23/03/2020 23:51	24/03/2020 3:40	3,49
34	24/03/2020	Sensor Kotor	24/03/2020 4:11	24/03/2020 20:30	16,19
35	24/03/2020	Sensor Kotor	24/03/2020 20:51	26/03/2020 1:01	28,1
36	26/03/2020	Sensor Kotor	26/03/2020 1:06	30/03/2020 2:03	96,57
37	30/03/2020	Sensor Kotor	30/03/2020 2:11	30/03/2020 3:05	0,54

38	30/03/2020	Sensor Kotor	30/03/2020 3:16	31/03/2020 4:07	24,51
39	31/03/2020	Sensor Kotor	31/03/2020 4:21	31/03/2020 5:09	0,48
40	31/03/2020	Sensor Kotor	31/03/2020 5:26	01/04/2020 6:11	24,45
41	01/04/2020	Sensor Kotor	01/04/2020 6:31	01/04/2020 7:13	0,42
42	01/04/2020	Sensor Kotor	01/04/2020 7:36	02/04/2020 8:15	24,39
43	02/04/2020	Sensor Kotor	02/04/2020 8:41	03/04/2020 9:17	24,36
44	03/04/2020	Sensor Kotor	03/04/2020 9:46	03/04/2020 10:19	0,33
45	03/04/2020	Sensor Kotor	03/04/2020 10:51	04/04/2020 11:21	24,3
46	04/04/2020	Sensor Kotor	04/04/2020 11:56	07/04/2020 12:23	72,27
47	07/04/2020	Sensor Kotor	07/04/2020 13:01	07/04/2020 13:25	0,24
48	07/04/2020	Sensor Kotor	07/04/2020 14:06	20/04/2020 14:27	312,21
49	20/04/2020	Sensor Kotor	20/04/2020 15:11	21/04/2020 15:29	24,18
50	21/04/2020	Sensor Kotor	21/04/2020 16:16	21/04/2020 16:31	0,15
51	21/04/2020	Sensor Kotor	21/04/2020 17:21	23/04/2020 17:33	48,12
52	23/04/2020	Sensor Kotor	23/04/2020 18:26	30/04/2020 18:35	168,09
53	30/04/2020	Sensor Kotor	30/04/2020 19:31	30/04/2020 19:37	0,06
54	30/04/2020	Sensor Kotor	30/04/2020 20:36	30/04/2020 20:39	0,03
55	30/04/2020	Sensor Kotor	30/04/2020 21:21	30/04/2020 21:41	0,2
56	30/04/2020	Sensor Kotor	30/04/2020 22:26	14/05/2020 22:43	336,17
57	14/05/2020	Sensor Kotor	14/05/2020 23:11	18/05/2020 0:45	73,34
58	18/05/2020	Sensor Kotor	18/05/2020 1:16	18/05/2020 8:30	7,14
59	18/05/2020	Sensor Kotor	18/05/2020 9:01	18/05/2020 23:00	13,59
60	18/05/2020	Sensor Kotor	18/05/2020 23:31	19/05/2020 3:00	3,29
61	19/05/2020	Sensor Kotor	19/05/2020 3:41	20/05/2020 17:00	37,19
62	20/05/2020	Sensor Kotor	20/05/2020 17:21	20/05/2020 22:20	4,59
63	20/05/2020	Sensor Kotor	20/05/2020 23:11	21/05/2020 0:10	0,59
64	21/05/2020	Sensor Kotor	21/05/2020 0:31	05/06/2020 23:30	382,59
65	05/06/2020	Sensor Kotor	05/06/2020 23:41	08/06/2020 3:00	51,19
66	08/06/2020	Sensor Kotor	08/06/2020 3:11	08/06/2020 23:10	19,59
67	08/06/2020	Sensor Kotor	08/06/2020 23:51	11/06/2020 3:40	51,49
68	11/06/2020	Sensor Kotor	11/06/2020 4:11	12/06/2020 0:30	20,19
69	12/06/2020	Sensor Kotor	12/06/2020 0:51	12/06/2020 8:30	7,39
70	12/06/2020	Sensor Kotor	12/06/2020 9:01	16/06/2020 2:10	89,09
71	16/06/2020	Sensor Kotor	16/06/2020 2:26	16/06/2020 21:10	18,44
72	16/06/2020	Sensor Kotor	16/06/2020 21:41	16/06/2020 23:40	1,59
73	16/06/2020	Sensor Kotor	16/06/2020 23:51	17/06/2020 1:20	1,29
74	17/06/2020	Sensor Kotor	17/06/2020 2:11	18/06/2020 0:10	21,59
75	18/06/2020	Sensor Kotor	18/06/2020 0:31	18/06/2020 3:30	2,59
76	18/06/2020	Sensor Kotor	18/06/2020 3:41	18/06/2020 23:00	19,19
77	18/06/2020	Sensor Kotor	18/06/2020 23:11	23/06/2020 2:40	99,29
78	23/06/2020	Sensor Kotor	23/06/2020 2:51	24/06/2020 3:40	24,49
79	24/06/2020	Sensor Kotor	24/06/2020 4:11	27/06/2020 0:30	68,19
80	27/06/2020	Sensor Kotor	27/06/2020 0:51	03/07/2020 8:30	151,39
81	03/07/2020	Sensor Kotor	03/07/2020 9:01	03/07/2020 14:10	5,09
82	03/07/2020	Sensor Kotor	03/07/2020 14:26	03/07/2020 21:10	6,44
83	03/07/2020	Sensor Kotor	03/07/2020 21:41	12/07/2020 3:40	197,59
84	12/07/2020	Sensor Kotor	12/07/2020 4:31	13/07/2020 1:20	20,49
85	13/07/2020	Sensor Kotor	13/07/2020 1:41	13/07/2020 17:10	15,29
86	13/07/2020	Sensor Kotor	13/07/2020 17:46	13/07/2020 23:20	5,34
87	13/07/2020	Sensor Kotor	13/07/2020 23:36	14/07/2020 0:20	0,44
88	14/07/2020	Sensor Kotor	14/07/2020 0:36	14/07/2020 20:10	19,34
89	14/07/2020	Sensor Kotor	14/07/2020 20:41	16/07/2020 19:00	46,19
90	16/07/2020	Sensor Kotor	16/07/2020 19:16	17/07/2020 23:00	27,44
91	17/07/2020	Sensor Kotor	17/07/2020 23:31	20/07/2020 3:00	51,29
92	20/07/2020	Sensor Kotor	20/07/2020 3:41	20/07/2020 17:00	13,19

93	20/07/2020	Sensor Kotor	20/07/2020 17:21	21/07/2020 1:20	7,59
94	21/07/2020	Sensor Kotor	21/07/2020 2:11	22/07/2020 0:10	21,59
95	22/07/2020	Sensor Kotor	22/07/2020 0:31	25/07/2020 23:30	94,59
96	25/07/2020	Sensor Kotor	25/07/2020 23:41	01/08/2020 7:00	151,19
Jumlah					4902,38

c. Data MTBF Sensor *Limit Switch*

No	Tanggal Kerusakan	Jenis Kerusakan	Waktu Mulai Optimal	Waktu Selesai Optimal	Waktu Lama Optimal (Jam)
1	08/01/2020	Sensor Kotor	08/01/2020 3:40	08/01/2020 8:30	4,50
2	08/01/2020	Sensor Kotor	08/01/2020 9:00	22/01/2020 2:10	329,10
3	22/01/2020	Sensor Kotor	22/01/2020 2:25	22/01/2020 21:10	18,45
4	22/01/2020	Sensor Kotor	22/01/2020 21:40	29/01/2020 3:40	150,00
5	29/01/2020	Sensor Kotor	29/01/2020 4:30	30/01/2020 20:20	39,50
6	30/01/2020	Sensor Kotor	30/01/2020 20:40	01/02/2020 1:10	28,30
7	01/02/2020	Sensor Kotor	01/02/2020 1:25	01/02/2020 2:20	0,55
8	01/02/2020	Sensor Kotor	01/02/2020 2:35	03/02/2020 1:20	46,45
9	03/02/2020	Sensor Kotor	03/02/2020 2:35	03/02/2020 20:10	17,35
10	03/02/2020	Sensor Kotor	03/02/2020 20:40	08/02/2020 19:00	118,20
11	08/02/2020	Sensor Kotor	08/02/2020 19:15	13/02/2020 3:00	103,45
12	13/02/2020	Sensor Kotor	13/02/2020 3:30	13/02/2020 23:00	19,30
13	13/02/2020	Sensor Kotor	13/02/2020 23:40	14/02/2020 17:00	17,20
14	14/02/2020	Sensor Kotor	14/02/2020 17:20	26/02/2020 1:20	272,00
15	26/02/2020	Sensor Kotor	26/02/2020 2:10	27/02/2020 0:10	22,00
16	27/02/2020	Sensor Kotor	27/02/2020 0:30	04/03/2020 2:30	146,00
17	04/03/2020	Sensor Kotor	04/03/2020 2:40	04/03/2020 23:00	20,20
18	04/03/2020	Sensor Kotor	04/03/2020 23:50	07/03/2020 2:40	50,50
19	07/03/2020	Sensor Kotor	07/03/2020 2:50	11/03/2020 3:40	96,50
20	11/03/2020	Sensor Kotor	11/03/2020 4:10	12/03/2020 0:30	20,20
21	12/03/2020	Sensor Kotor	12/03/2020 0:50	12/03/2020 4:00	3,10
22	12/03/2020	Sensor Kotor	12/03/2020 4:30	12/03/2020 8:10	3,40
23	12/03/2020	Sensor Kotor	12/03/2020 8:25	13/03/2020 1:00	16,35
24	13/03/2020	Sensor Kotor	13/03/2020 2:00	13/03/2020 9:25	7,25
25	13/03/2020	Sensor Kotor	13/03/2020 9:45	13/03/2020 19:00	9,15
26	13/03/2020	Sensor Kotor	13/03/2020 19:20	16/03/2020 1:30	54,10
27	16/03/2020	Sensor Kotor	16/03/2020 1:45	16/03/2020 10:00	8,15
28	16/03/2020	Sensor Kotor	16/03/2020 10:20	16/03/2020 23:20	13,00
29	16/03/2020	Sensor Kotor	16/03/2020 23:50	17/03/2020 11:10	11,20
30	17/03/2020	Sensor Kotor	17/03/2020 11:20	20/03/2020 8:30	69,10
31	20/03/2020	Sensor Kotor	20/03/2020 9:00	20/03/2020 18:00	9,00
32	20/03/2020	Sensor Kotor	20/03/2020 18:10	23/03/2020 23:40	77,30
33	23/03/2020	Sensor Kotor	23/03/2020 23:50	24/03/2020 3:40	3,50
34	24/03/2020	Sensor Kotor	24/03/2020 4:10	24/03/2020 20:30	16,20
35	24/03/2020	Sensor Kotor	24/03/2020 20:50	26/03/2020 1:01	28,11
36	26/03/2020	Sensor Kotor	26/03/2020 1:05	30/03/2020 2:03	96,58
37	30/03/2020	Sensor Kotor	30/03/2020 2:10	30/03/2020 3:05	0,55
38	30/03/2020	Sensor Kotor	30/03/2020 3:15	31/03/2020 4:07	24,52
39	31/03/2020	Sensor Kotor	31/03/2020 4:20	31/03/2020 5:09	0,49
40	31/03/2020	Sensor Kotor	31/03/2020 5:25	01/04/2020 6:11	24,46
41	01/04/2020	Sensor Kotor	01/04/2020 6:30	01/04/2020 7:13	0,43
42	01/04/2020	Sensor Kotor	01/04/2020 7:35	02/04/2020 8:15	24,40
43	02/04/2020	Sensor Kotor	02/04/2020 8:40	03/04/2020 9:17	24,37
44	03/04/2020	Sensor Kotor	03/04/2020 9:45	03/04/2020 10:19	0,34
45	03/04/2020	Sensor Kotor	03/04/2020 10:50	04/04/2020 11:21	24,31

46	04/04/2020	Sensor Kotor	04/04/2020 11:55	07/04/2020 12:23	72,28
47	07/04/2020	Sensor Kotor	07/04/2020 13:00	07/04/2020 13:25	0,25
48	07/04/2020	Sensor Kotor	07/04/2020 14:05	20/04/2020 14:27	312,22
49	20/04/2020	Sensor Kotor	20/04/2020 15:10	21/04/2020 15:29	24,19
50	21/04/2020	Sensor Kotor	21/04/2020 16:15	21/04/2020 16:31	0,16
51	21/04/2020	Sensor Kotor	21/04/2020 17:20	23/04/2020 17:33	48,13
52	23/04/2020	Sensor Kotor	23/04/2020 18:25	30/04/2020 18:35	168,10
53	30/04/2020	Sensor Kotor	30/04/2020 19:30	30/04/2020 19:37	0,07
54	30/04/2020	Sensor Kotor	30/04/2020 20:35	30/04/2020 20:39	0,04
55	30/04/2020	Sensor Kotor	30/04/2020 21:20	30/04/2020 21:41	0,21
56	30/04/2020	Sensor Kotor	30/04/2020 22:25	14/05/2020 22:43	336,18
57	14/05/2020	Sensor Kotor	14/05/2020 23:10	18/05/2020 0:45	73,35
58	18/05/2020	Sensor Kotor	18/05/2020 1:15	18/05/2020 8:30	7,15
59	18/05/2020	Sensor Kotor	18/05/2020 9:00	18/05/2020 23:00	14,00
60	18/05/2020	Sensor Kotor	18/05/2020 23:30	19/05/2020 3:00	3,30
61	19/05/2020	Sensor Kotor	19/05/2020 3:40	20/05/2020 17:00	37,20
62	20/05/2020	Sensor Kotor	20/05/2020 17:20	20/05/2020 22:20	5,00
63	20/05/2020	Sensor Kotor	20/05/2020 23:10	21/05/2020 0:10	1,00
64	21/05/2020	Sensor Kotor	21/05/2020 0:30	05/06/2020 23:30	383,00
65	05/06/2020	Sensor Kotor	05/06/2020 23:40	08/06/2020 3:00	51,20
66	08/06/2020	Sensor Kotor	08/06/2020 3:10	08/06/2020 23:10	20,00
67	08/06/2020	Sensor Kotor	08/06/2020 23:50	11/06/2020 3:40	51,50
68	11/06/2020	Sensor Kotor	11/06/2020 4:10	12/06/2020 0:30	20,20
69	12/06/2020	Sensor Kotor	12/06/2020 0:50	12/06/2020 8:30	7,40
70	12/06/2020	Sensor Kotor	12/06/2020 9:00	16/06/2020 2:10	89,10
71	16/06/2020	Sensor Kotor	16/06/2020 2:25	16/06/2020 21:10	18,45
72	16/06/2020	Sensor Kotor	16/06/2020 21:40	16/06/2020 23:40	2,00
73	16/06/2020	Sensor Kotor	16/06/2020 23:50	17/06/2020 1:20	1,30
74	17/06/2020	Sensor Kotor	17/06/2020 2:10	18/06/2020 0:10	22,00
75	18/06/2020	Sensor Kotor	18/06/2020 0:30	18/06/2020 3:30	3,00
76	18/06/2020	Sensor Kotor	18/06/2020 3:40	18/06/2020 23:00	19,20
77	18/06/2020	Sensor Kotor	18/06/2020 23:10	23/06/2020 2:40	99,30
78	23/06/2020	Sensor Kotor	23/06/2020 2:50	24/06/2020 3:40	24,50
79	24/06/2020	Sensor Kotor	24/06/2020 4:10	27/06/2020 0:30	68,20
80	27/06/2020	Sensor Kotor	27/06/2020 0:50	03/07/2020 8:30	151,40
81	03/07/2020	Sensor Kotor	03/07/2020 9:00	03/07/2020 14:10	5,10
82	03/07/2020	Sensor Kotor	03/07/2020 14:25	03/07/2020 21:10	6,45
83	03/07/2020	Sensor Kotor	03/07/2020 21:40	12/07/2020 3:40	198,00
84	12/07/2020	Sensor Kotor	12/07/2020 4:30	13/07/2020 1:20	20,50
85	13/07/2020	Sensor Kotor	13/07/2020 1:40	13/07/2020 17:10	15,30
86	13/07/2020	Sensor Kotor	13/07/2020 17:45	13/07/2020 23:20	5,35
87	13/07/2020	Sensor Kotor	13/07/2020 23:35	14/07/2020 0:20	0,45
88	14/07/2020	Sensor Kotor	14/07/2020 0:35	14/07/2020 20:10	19,35
89	14/07/2020	Sensor Kotor	14/07/2020 20:40	16/07/2020 19:00	46,20
90	16/07/2020	Sensor Kotor	16/07/2020 19:15	17/07/2020 23:00	27,45
91	17/07/2020	Sensor Kotor	17/07/2020 23:30	20/07/2020 3:00	51,30
92	20/07/2020	Sensor Kotor	20/07/2020 3:40	20/07/2020 17:00	13,20
93	20/07/2020	Sensor Kotor	20/07/2020 17:20	21/07/2020 1:20	8,00
94	21/07/2020	Sensor Kotor	21/07/2020 2:10	22/07/2020 0:10	22,00
95	22/07/2020	Sensor Kotor	22/07/2020 0:30	25/07/2020 23:30	95,00
96	25/07/2020	Sensor Kotor	25/07/2020 23:40	01/08/2020 7:00	151,20
Jumlah					4904,14

Distribution ID Plot: Anilox Roller; Flexo Plate; Sensor Limit Switch

Results for variable: Anilox Roller

Goodness-of-Fit

Distribution	Anderson-Darling (adj)
Weibull	1,421
Lognormal	0,712
Exponential	9,848
Normal	20,007

Table of Percentiles

Distribution	Percent	Percentile	Standard Error	95% Normal CI	
				Lower	Upper
Weibull	1	0,0479333	0,0219139	0,0195655	0,117432
Lognormal	1	0,447051	0,108433	0,277904	0,719148
Exponential	1	0,367349	0,0313848	0,310711	0,434312
Normal	1	-111,478	10,4655	-131,990	-90,9655
Weibull	5	0,461051	0,148652	0,245078	0,867347
Lognormal	5	1,22134	0,236038	0,836240	1,78378
Exponential	5	1,87482	0,160177	1,58576	2,21657
Normal	5	-68,1132	8,33873	-84,4568	-51,7695
Weibull	10	1,25290	0,332304	0,744993	2,10707
Lognormal	10	2,08699	0,354858	1,49551	2,91242
Exponential	10	3,85103	0,329015	3,25727	4,55302
Normal	10	-44,9958	7,33648	-59,3750	-30,6166
Weibull	50	17,1462	2,39242	13,0436	22,5391
Lognormal	50	13,8141	1,74051	10,7913	17,6835
Exponential	50	25,3352	2,16453	21,4290	29,9535
Normal	50	36,5509	5,43639	25,8958	47,2061

Table of MTTF

Distribution	Mean	Standard Error	95% Normal CI	
			Lower	Upper
Weibull	35,1765	4,20580	27,8279	44,4657
Lognormal	40,9816	7,46022	28,6838	58,5518
Exponential	36,5509	3,12276	30,9155	43,2137
Normal	36,5509	5,43639	25,8958	47,2061

Results for variable: Flexo Plate

Goodness-of-Fit

Distribution	Anderson-Darling (adj)
Weibull	1,287
Lognormal	4,210
Exponential	2,735
Normal	9,829

Table of Percentiles

Distribution	Percent	Percentile	Standard Error	95% Normal CI	
				Lower	Upper
Weibull	1	0,121290	0,0600933	0,0459297	0,320298
Lognormal	1	0,354520	0,113255	0,189546	0,663079
Exponential	1	0,464947	0,0449482	0,384694	0,561943
Normal	1	-90,5266	10,9429	-111,974	-69,0789
Weibull	5	0,952139	0,329575	0,483130	1,87645
Lognormal	5	1,14206	0,290701	0,693464	1,88085
Exponential	5	2,37292	0,229399	1,96334	2,86796
Normal	5	-50,4550	8,71913	-67,5442	-33,3658
Weibull	10	2,36537	0,668494	1,35936	4,11589
Lognormal	10	2,13073	0,477169	1,37374	3,30485
Exponential	10	4,87417	0,471204	4,03285	5,89101
Normal	10	-29,0930	7,67115	-44,1281	-14,0578
Weibull	50	25,5960	3,65936	19,3410	33,8739
Lognormal	50	19,2272	3,19067	13,8887	26,6176
Exponential	50	32,0663	3,09996	26,5314	38,7559
Normal	50	46,2619	5,68438	35,1207	57,4030

Table of MTTF

Distribution	Mean	Standard Error	95% Normal CI	
			Lower	Upper
Weibull	46,4700	5,7314	36,4913	59,177
Lognormal	83,8989	21,8958	50,3050	139,927
Exponential	46,2619	4,4723	38,2767	55,913
Normal	46,2619	5,6844	35,1207	57,403

Results for variable: Sensor Limit Switch

Goodness-of-Fit

Distribution	Anderson-Darling (adj)
Weibull	0,690
Lognormal	2,154
Exponential	9,664
Normal	11,705

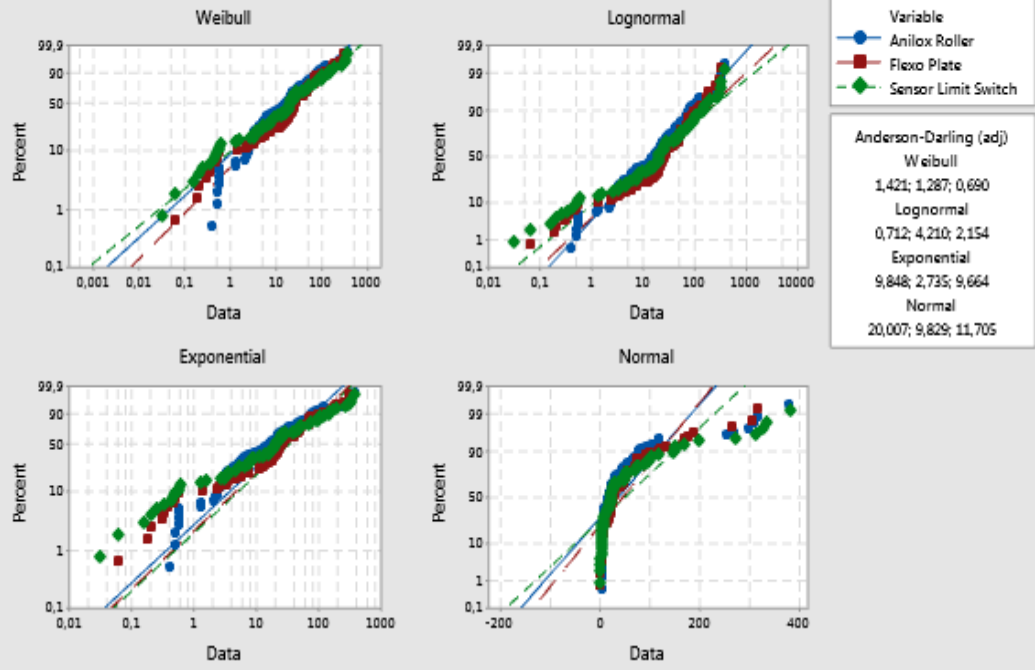
Table of Percentiles

Distribution	Percent	Percentile	Standard Error	95% Normal CI	
				Lower	Upper
Weibull	1	0,0282970	0,0182325	0,0080037	0,100044
Lognormal	1	0,147473	0,0575005	0,0686791	0,316665
Exponential	1	0,510932	0,0521468	0,418300	0,624077
Normal	1	-130,109	15,2823	-160,062	-100,156
Weibull	5	0,358933	0,161774	0,148378	0,868272
Lognormal	5	0,570237	0,177155	0,310179	1,04833
Exponential	5	2,60761	0,266138	2,13485	3,18507
Normal	5	-77,1016	12,1767	-100,968	-53,2357
Weibull	10	1,10216	0,405945	0,535469	2,26860
Lognormal	10	1,17264	0,320518	0,686289	2,00366
Exponential	10	5,35624	0,546669	4,38515	6,54238
Normal	10	-48,8435	10,7131	-69,8409	-27,8461
Weibull	50	20,7672	3,87943	14,4002	29,9493
Lognormal	50	14,9164	3,02116	10,0291	22,1854
Exponential	50	35,2377	3,59644	28,8491	43,0411
Normal	50	50,8373	7,93852	35,2781	66,3965

Table of MTTF

Distribution	Mean	Standard Error	95% Normal CI	
			Lower	Upper
Weibull	50,973	8,3434	36,9840	70,253
Lognormal	106,861	37,2940	53,9205	211,780
Exponential	50,837	5,1886	41,6205	62,095
Normal	50,837	7,9385	35,2781	66,397

Probability Plot for Anilox Roller; Flexo Plate; Sensor Limit Switch ML Estimates-Complete Data



KUISONER PENELITIAN
PROGRAM STUDI TEKNIK INDUSTRI
FAKULTAS TEKNIK
UNIVERSITAS PGRI ADI BUANA SURABAYA
Jl. Dkuh Menanggal XII, Surabaya-60245. Telp (031)5041097

Yth Responden

Dalam rangka pengumpulan data untuk Tugas Akhir saya pada Program Studi Teknik Industri, Fakultas Teknik, Universitas PGRI Adi Buana Surabaya. Maka saya mohon bantuan saudara untuk mengisi kuisoner penelitian saya yang berjudul (Penjadwalan Perawatan Mesin Flexo Menggunakan Metode *Reliability Centered Maintenance* di PT SGM).

Perlu saudara ketahui bahwa hasil penelitian ini benar-benar hanya dipergunakan untuk keperluan Tugas Akhir dan tidak ada maksud lain. Oleh itu saya mohon kepada Saudara tidak perlu ragu-ragu untuk menjawab semua pertanyaan yang tersedia, karena saya akan menjamin kerahasiaan jawaban yang anda berikan. Semua jawaban yang anda berikan memiliki makna yang besar dalam penelitian ini.

Besar harapan saya dapat menerima kembali kuisoner penelitian ini yang telah saudara isi. Atas kesediaan saudara membantu penelitian ini saya ucapkan terimakasih.

Gigih Heri Setiawan

1. Data Identitas Responden

- a. Nama : SLAMET
b. Jabatan : SPV MAINTENANCE

2. Identifikasi Presepsi Responden

Beri angka 1-10 pada kolom yang disediakan

Tabel Skala Penilaian

Tingkat Keparahan		Tingkat Frekuensi		Tingkat Deteksi	
Skor	Dampak	Skor	Kemungkinan Kejadian	Skor	Deteksi
1	Tidak ada efek	1	<1 dari 1.500.000	1	Hampir pasti
2	Sangat kecil/ minor	2	1 dari 150.000	2	Sangat mudah
3	Kecil/ minor	3	1 dari 15.000	3	Mudah
4	Sangat rendah	4	1 dari 2.000	4	Cukup mudah
5	Rendah	5	1 dari 400	5	Biasa saja
6	Sedang	6	1 dari 80	6	Agak sulit
7	Tinggi	7	1 dari 20	7	Cukup sulit
8	Sangat tinggi	8	1 dari 8	8	Sulit
9	Serius	9	1 dari 3	9	Sangat sulit
10	Sangat berbahaya/ serius	10	>1 dari 2	10	Hampir tidak mungkin

Tabel Pertanyaan

No	Nama Komponen	Potensi	Penilaian		
			Tingkat Keparahan	Tingkat Frekuensi	Tingkat Deteksi
1	Tinta	terlalu encer	3	1	2
		terlalu kental	3	2	2
2	Bak Tinta	Bocor	2	1	1
3	Fountain Roller	Tinta keluar bak tinta	2	3	3
4	Flexo Plate	Profil kotor	8	7	5
5	Doctor Blade	Aus	2	2	2
6	Anilox Roller	Anilox kotor	8	8	6
7	Impression Cylinder	Terlalu rapat	4	5	4
8	Feeder	Ganti wast sheet	3	4	2
9	Slotter	Pisau tumpul	2	4	4
10	Folding Glue	Bek r ooft of patus	6	5	4
11	Straping	Ganti tali	4	10	1
12	Sewar limit switch	Sensorkotor	8	5	5