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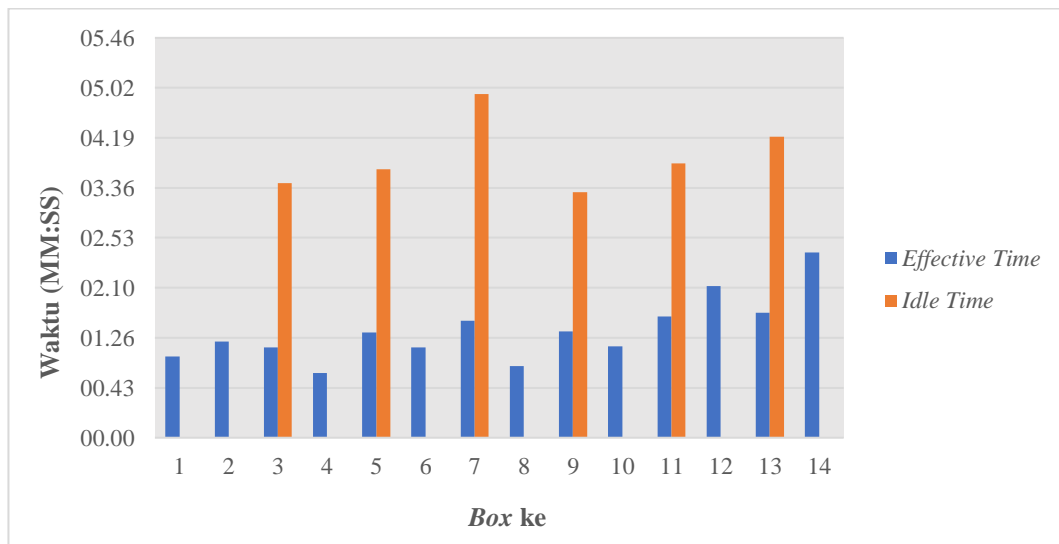
LAMPIRAN

Lampiran 1. Data Waktu Pelayanan Kegiatan Muat pada RTG Crane 06

Box ke	Kegiatan	Row	Tier	Tahap Waktu (MM:SS)					Effective Time (MM:SS)	Idle Time (MM:SS)
				I	II	III	IV	V		
1	Muat	2	2	00:00	00:24	00:11	00:26	00:09	01:10	00:00
2	Muat	1	2	00:00	00:24	00:14	00:27	00:18	01:23	00:00
3	Muat	2	1	00:14	00:23	00:17	00:13	00:11	01:18	03:40
4	Muat	2	2	00:00	00:20	00:13	00:13	00:10	00:56	00:00
5	Muat	1	1	00:00	00:22	00:35	00:15	00:19	01:31	03:52
6	Muat	1	2	00:00	00:28	00:19	00:15	00:16	01:18	00:00
7	Muat	1	1	00:15	00:25	00:20	00:18	00:23	01:41	04:57
8	Muat	2	2	00:00	00:25	00:14	00:13	00:10	01:02	00:00
9	Muat	1	1	00:00	00:23	00:35	00:14	00:20	01:32	03:32
10	Muat	1	2	00:00	00:28	00:19	00:15	00:17	01:19	00:00
11	Muat	1	1	00:17	00:24	00:21	00:18	00:25	01:45	03:57
12	Muat	1	1	00:00	00:56	00:28	00:31	00:16	02:11	00:00
13	Muat	2	2	00:00	00:56	00:15	00:18	00:19	01:48	04:20
14	Muat	2	1	00:00	00:58	00:17	01:03	00:22	02:40	00:00
Jumlah				00:46	07:16	04:38	04:59	03:55	21:34	24:18
Rata-Rata				00:03	00:31	00:20	00:21	00:17	01:32	01:44
Persentase									47,02%	52,98%

Sumber: Pengamatan Lapangan (Makassar New Port) dan Analisis Data, 2020

Lampiran 2. Grafik Perbandingan *Effective Time* dan *Idle Time* pada RTG Crane 06



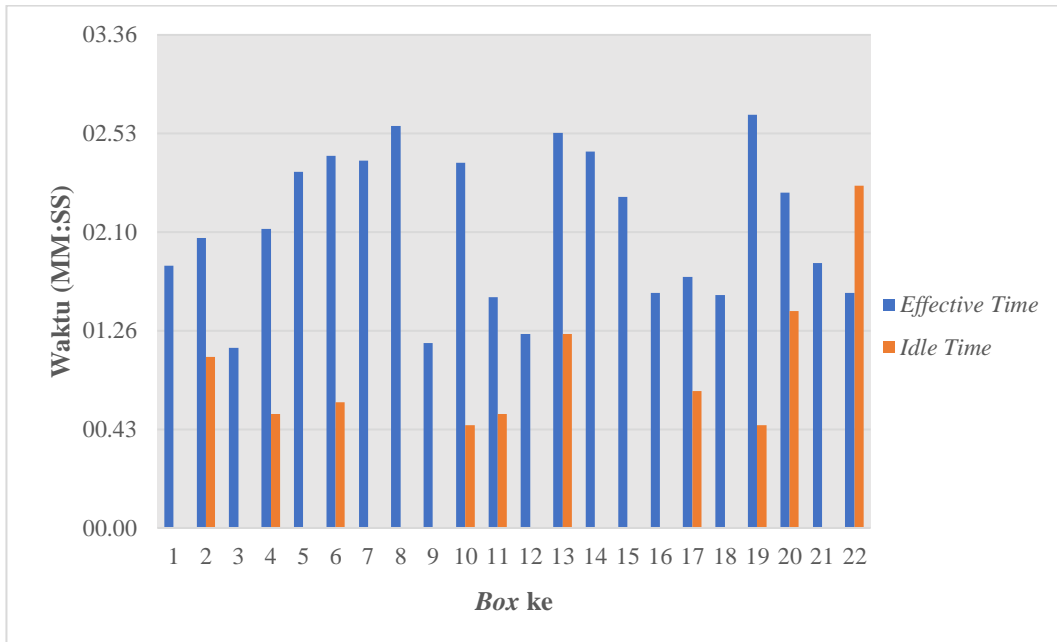
Sumber: Analisis Data, 2020

Lampiran 3. Data Waktu Pelayanan Bongkar Muat pada RTG Crane 12

Box ke	Kegiatan	Row	Tier	Tahap Waktu (MM:SS)					Effective Time (MM:SS)	Idle Time (MM:SS)
				I	II	III	IV	V		
1	Bongkar	3	2	00:00	00:21	00:35	00:24	00:35	01:55	00:00
2	Bongkar	4	2	00:40	00:17	00:20	00:21	00:29	02:07	01:15
3	Bongkar	4	3	00:00	00:39	00:20	00:11	00:09	01:19	00:00
4	Delivery	3	3	00:36	00:25	00:27	00:29	00:14	02:11	00:50
5	Delivery	4	1	00:12	00:39	00:55	00:35	00:15	02:36	00:00
6	Delivery	3	1	00:14	00:33	00:38	01:03	00:15	02:43	00:55
7	Bongkar	2	3	00:34	00:35	00:29	00:47	00:16	02:41	00:00
8	Delivery	1	2	00:23	00:59	00:40	00:38	00:16	02:56	00:00
9	Bongkar	5	2	00:16	00:22	00:16	00:20	00:07	01:21	00:00
10	Bongkar	3	3	00:00	00:18	00:28	00:52	01:02	02:40	00:45
11	Bongkar	2	3	00:20	00:18	00:19	00:29	00:15	01:41	00:50
12	Bongkar	5	2	00:00	00:17	00:29	00:22	00:17	01:25	00:00
13	Delivery	2	2	00:29	00:35	00:44	00:49	00:16	02:53	01:25
14	Delivery	3	1	00:40	00:34	00:44	00:33	00:14	02:45	00:00
15	Delivery	2	3	00:13	00:28	00:38	00:52	00:14	02:25	00:00
16	Bongkar	4	3	00:00	00:36	00:31	00:24	00:12	01:43	00:00
17	Bongkar	5	3	00:17	00:25	00:27	00:25	00:16	01:50	01:00
18	Bongkar	3	2	00:00	00:21	00:23	00:46	00:12	01:42	00:00
19	Delivery	3	3	00:00	01:08	00:38	00:59	00:16	03:01	00:45
20	Delivery	4	2	00:29	00:34	00:26	00:41	00:17	02:27	01:35
21	Delivery	4	1	00:00	00:58	00:15	00:28	00:15	01:56	00:00
22	Bongkar	2	2	00:00	00:33	00:26	00:33	00:11	01:43	02:30
Jumlah				05:23	11:55	11:08	13:01	06:33	48:00	11:50
Rata-Rata				00:15	00:33	00:30	00:36	00:18	02:11	00:32
Persentase									80,22%	19,78%

Sumber: Pengamatan Lapangan (Makassar New Port) dan Analisis Data, 2020

Lampiran 4. Grafik Perbandingan *Effective Time* dan *Idle Time* pada RTG Crane 12



Sumber: Analisis Data, 2020

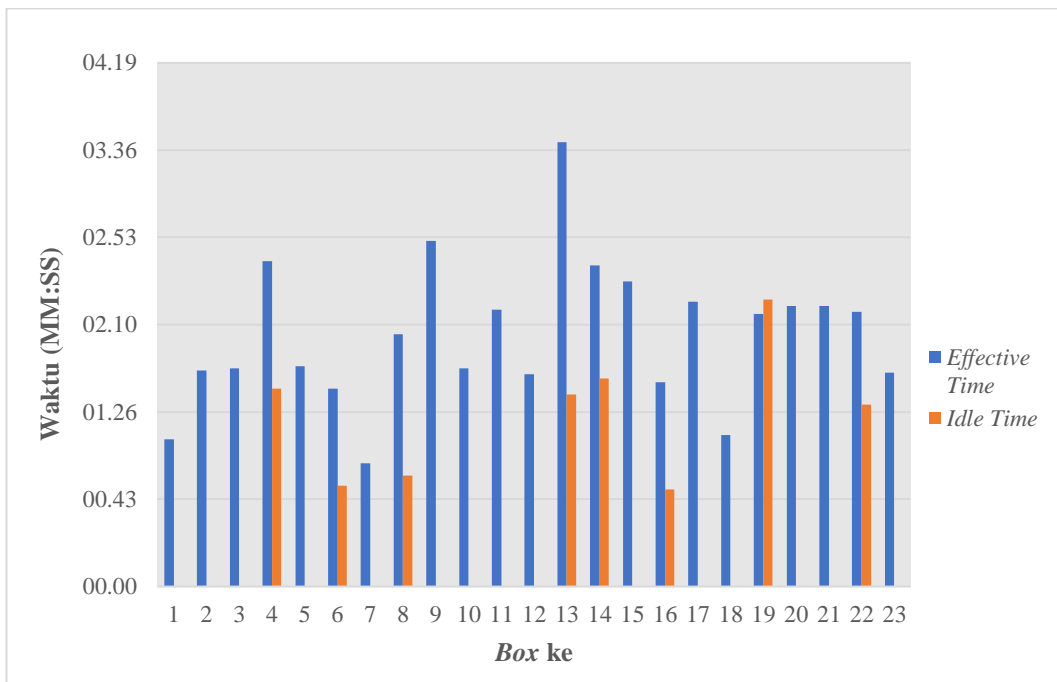
Lampiran 5. Data Waktu Pelayanan Bongkar Muat pada RTG Crane 14

Box ke	Kegiatan	Row	Tier	Tahap Waktu (MM:SS)					Effective Time (MM:SS)	Idle Time (MM:SS)
				I	II	III	IV	V		
1	Delivery	5	1	00:00	00:29	00:13	00:19	00:12	01:13	00:00
2	Bongkar	4	2	00:34	00:29	00:13	00:19	00:12	01:47	00:00
3	Bongkar	5	2	00:00	00:23	00:09	00:57	00:19	01:48	00:00
4	Delivery	4	3	00:38	00:56	00:33	00:11	00:23	02:41	01:38
5	Delivery	5	1	00:21	00:27	00:17	00:31	00:13	01:49	00:00
6	Bongkar	5	3	00:17	00:21	00:10	00:27	00:23	01:38	00:50
7	Bongkar	5	2	00:00	00:22	00:09	00:15	00:15	01:01	00:00
8	Delivery	1	2	00:17	00:27	00:28	00:36	00:17	02:05	00:55
9	Bongkar	2	2	00:24	00:52	00:24	00:41	00:30	02:51	00:00
10	Bongkar	1	3	00:00	00:28	00:24	00:36	00:20	01:48	00:00
11	Bongkar	2	3	00:16	00:29	00:18	00:38	00:36	02:17	00:00
12	Bongkar	3	3	00:00	00:28	00:27	00:21	00:29	01:45	00:00
13	Delivery	3	1	00:30	00:35	01:12	01:07	00:16	03:40	01:35
14	Delivery	1	1	00:42	00:46	00:26	00:29	00:16	02:39	01:43
15	Bongkar	1	3	00:00	00:39	00:40	00:48	00:24	02:31	00:00

16	Bongkar	2	3	00:11	00:22	00:29	00:18	00:21	01:41	00:48
17	Bongkar	3	3	00:23	00:23	00:31	00:36	00:28	02:21	00:00
18	Bongkar	4	3	00:00	00:26	00:25	00:14	00:10	01:15	00:00
19	Delivery	2	3	00:46	00:24	00:28	00:19	00:18	02:15	02:22
20	Delivery	5	3	00:51	00:25	00:16	00:30	00:17	02:19	00:00
21	Delivery	5	3	00:51	00:25	00:16	00:30	00:17	02:19	00:00
22	Delivery	3	3	00:40	00:32	00:27	00:24	00:13	02:16	01:30
23	Bongkar	5	3	00:14	00:23	00:16	00:33	00:20	01:46	00:00
Jumlah				07:55	11:02	08:58	11:20	07:17	47:45	11:21
Rata-Rata				00:22	00:30	00:24	00:31	00:20	02:07	00:26
Persentase									80,8%	19,2%

Sumber: Pengamatan Lapangan (Makassar New Port) dan Analisis Data, 2020

Lampiran 6. Grafik Perbandingan *Effective Time* dan *Idle Time* pada RTG Crane 14



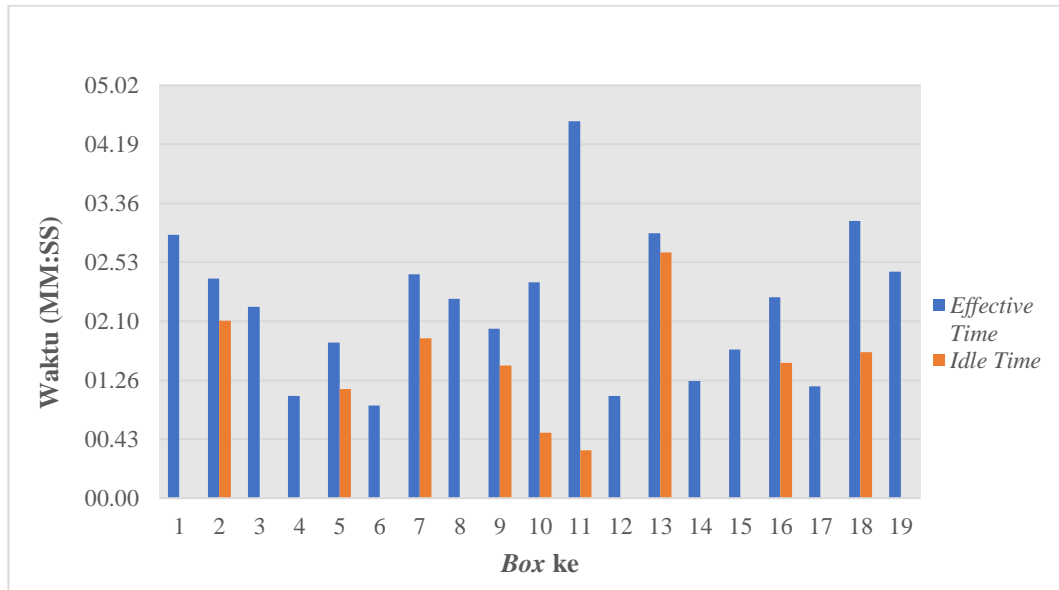
Sumber: Analisis Data, 2020

Lampiran 7. Data Waktu Pelayanan Bongkar Muat pada RTG Crane 15

Box ke	Kegiatan	Row	Tier	Tahap Waktu (MM:SS)					Effective Time (MM:SS)	Idle Time (MM:SS)
				I	II	III	IV	V		
1	Delivery	5	1	00:00	01:26	00:32	00:51	00:24	03:13	00:00
2	Delivery	2	3	00:30	00:25	00:28	00:57	00:21	02:41	02:10
3	Delivery	5	1	00:13	00:35	00:20	00:49	00:23	02:20	00:00
4	Bongkar	5	2	00:00	00:26	00:16	00:26	00:07	01:15	00:00
5	Bongkar	5	3	00:38	00:27	00:19	00:16	00:14	01:54	01:20
6	Bongkar	5	2	00:00	00:22	00:12	00:28	00:06	01:08	00:00
7	Delivery	1	3	00:58	00:29	00:23	00:39	00:15	02:44	01:57
8	Delivery	3	1	00:00	00:22	00:31	01:07	00:26	02:26	00:00
9	Bongkar	2	2	00:16	00:19	00:29	00:37	00:23	02:04	01:37
10	Bongkar	2	3	00:00	01:28	00:35	00:20	00:15	02:38	00:48
11	Delivery	1	2	00:49	00:58	00:54	01:38	00:17	04:36	00:35
12	Bongkar	4	3	00:00	00:18	00:26	00:20	00:11	01:15	00:00
13	Delivery	4	1	00:14	01:25	00:24	00:53	00:18	03:14	03:00
14	Bongkar	5	3	00:14	00:23	00:15	00:18	00:16	01:26	00:00
15	Bongkar	1	2	00:00	00:38	00:29	00:26	00:16	01:49	00:00
16	Bongkar	1	3	00:35	00:39	00:26	00:29	00:18	02:27	01:39
17	Bongkar	4	1	00:00	00:29	00:18	00:18	00:17	01:22	00:00
18	Delivery	2	2	00:40	00:41	00:25	01:25	00:12	03:23	01:47
19	Bongkar	4	2	00:22	00:53	00:23	00:51	00:17	02:46	00:00
Jumlah				04:46	10:17	06:45	10:31	04:08	44:41	14:53
Rata-Rata				00:18	00:39	00:25	00:39	00:16	02:17	00:36
Persentase									75,01%	24,99%

Sumber: Pengamatan Lapangan (Makassar New Port) dan Analisis Data, 2020

Lampiran 8. Grafik Perbandingan *Effective Time* dan *Idle Time* pada RTG Crane 15



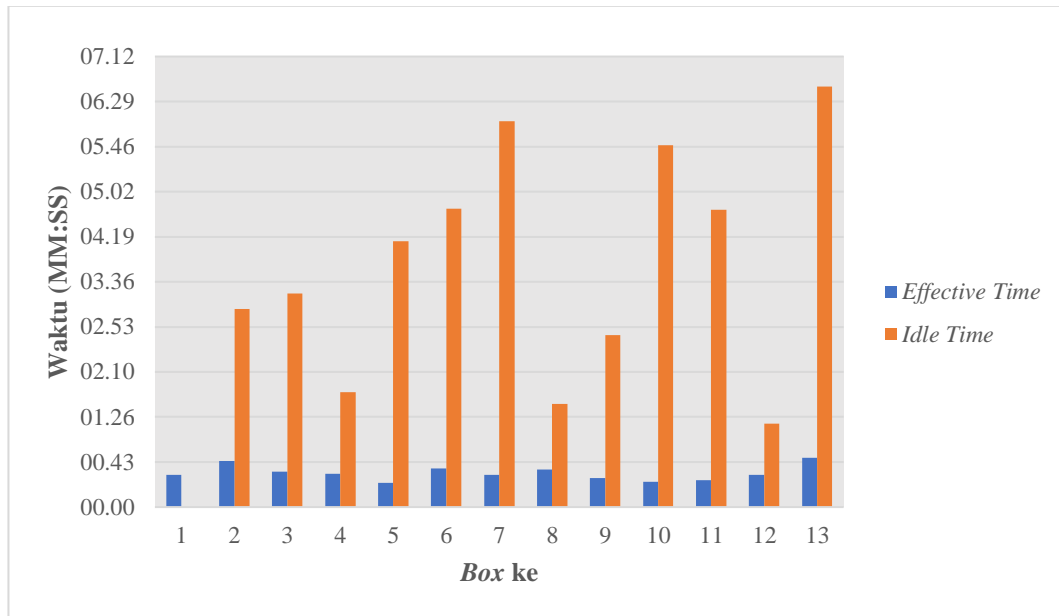
Sumber: Analisis Data, 2020

Lampiran 9. Data Waktu Pelayanan Kegiatan *Receiving* pada RS 02

Box ke	Row	Tier	Jarak (m)	Tahap Waktu (MM:SS)			Effective Time (MM:SS)	Idle Time (MM:SS)
				I	II	III		
Box 1	1	1	5	00:08	00:14	00:09	00:31	00:00
Box 2	1	1	10	00:08	00:29	00:07	00:44	03:10
Box 3	1	2	5	00:09	00:13	00:12	00:34	03:25
Box 4	2	2	5	00:10	00:11	00:11	00:32	01:50
Box 5	3	2	5	00:08	00:06	00:09	00:23	04:15
Box 6	4	2	5	00:13	00:09	00:15	00:37	04:46
Box 7	4	1	5	00:11	00:07	00:13	00:31	06:10
Box 8	2	1	5	00:17	00:07	00:12	00:36	01:39
Box 9	1	2	5	00:09	00:10	00:09	00:28	02:45
Box 10	3	2	5	00:07	00:07	00:10	00:24	04:47
Box 11	3	1	5	00:08	00:08	00:10	00:26	05:45
Box 12	3	2	5	00:10	00:09	00:12	00:31	01:20
Box 13	2	2	10	00:07	00:30	00:10	00:47	06:43
Jumlah			5	02:05	02:40	02:19	07:04	46:35
Rata-Rata				00:10	00:12	00:11	00:33	12:49
Persentase							13,17%	86,83%

Sumber: Pengamatan Lapangan (Makassar New Port) dan Analisis Data, 2020

Lampiran 10. Grafik Perbandingan *Effective Time* dan *Idle Time* pada RS 02



Sumber: Analisis Data, 2020

Lampiran 11. Data Kecepatan *Reach Stacker* 02 pada Kegiatan *Receiving*

<i>Box ke</i>	<i>Row</i>	<i>Tier</i>	Jarak (m)	Waktu Perpindahan RS (Tahap II)	Kecepatan (m/menit)
<i>Box 1</i>	1	1	5	00:14	21
<i>Box 2</i>	1	1	10	00:29	21
<i>Box 3</i>	1	2	5	00:13	23
<i>Box 4</i>	2	2	5	00:11	27
<i>Box 5</i>	3	2	5	00:06	50
<i>Box 6</i>	4	2	5	00:09	33
<i>Box 7</i>	4	1	5	00:07	43
<i>Box 8</i>	2	1	5	00:07	43
<i>Box 9</i>	1	2	5	00:10	30
<i>Box 10</i>	3	2	5	00:07	43
<i>Box 11</i>	3	1	5	00:08	38
<i>Box 12</i>	3	2	5	00:09	33
<i>Box 13</i>	2	2	10	00:30	20
Jumlah			75	02:40	425
Rata-Rata			5,77	00:12	33

Sumber: Analisis Data, 2020