

DAFTAR PUSTAKA

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LAMPIRAN

Lampiran 1 Jadwal Penelitian

No	Uraian Kegiatan	2024-2025									
		Nov	Des	Jan	Feb	Mar	Apr	Mei	Jun	Jul	Ags
1	Observasi Awal										
2	Penyusunan Proposal										
3	Seminar Proposal										
4	Perbaikan proposal										
5	Pelaksanaan Penelitian										
6	Pengolahan dan Penyusunan Laporan Penelitian										
7	Seminar Hasil										
8	Perbaikan Hasil Penelitian										

Lampiran 2 Data Populasi Unit Tahun 2024

PT. MADHANI TALATAH NUSANTARA BC Project #060C - SMO COAL											
POPULATION UNIT PT. MADHANI TALATAH NUSANTARA SITE 060											
No	Unit Code	Product	Model	Serial Number	Engine	Serial Number	Equipment	Despatching	Arrival		
8	TR-3131	Komatsu	HD785-7	J20323	SAA12V140E-3		OHT-Off-Highway Truck				
9	TR-3132	Komatsu	HD785-7	J20327			OHT-Off-Highway Truck	060C-C2HU	6-Dec-11		
TRUCK COAL											
1	TC-4006	Scania	P460 8X4	5614899	5614899	DC13144 L01	DTR-Dump Truck	001D-JKT	9-Nov-18		
2	TC-4007	Scania	P460 8X4	5629705	5629705	DC13144 L01	DTR-Dump Truck	001D-JKT	9-Nov-18		
3	TC-4008	Scania	P460 8X4	5630189	5630189	DC13144 L01	DTR-Dump Truck	001D-JKT	9-Nov-18		
4	TC-4009	Scania	P460 8X4	5630757	5630757	DC13144 L01	DTR-Dump Truck	001D-JKT	9-Nov-18		
5	TC-4010	Scania	P460 8X4	5630827	5630827	DC13144 L01	DTR-Dump Truck	001D-JKT	9-Nov-18		
6	TC-4016	Scania	P460 8X4	5635078	5635078	DC13144 L01	DTR-Dump Truck	001D-JKT	24-Nov-21		
7	TC-4017	Scania	P460 8X4	5635233	5635233	DC13144 L01	DTR-Dump Truck	001D-JKT	24-Nov-21		
8	TC-4018	Scania	P460 8X4	5635372	5635372	DC13144 L01	DTR-Dump Truck	001D-JKT	24-Nov-21		
9	TC-4019	Scania	P460 8X4	5635552	5635552	DC13144 L01	DTR-Dump Truck	001D-JKT	24-Nov-21		
10	TC-4020	Scania	P460 8X4	5635567	5635567	DC13144 L01	DTR-Dump Truck	001D-JKT	24-Nov-21		
11	TC-4051	Scania	G460CB 8X4	5693819	5635567	DC13144 L01	DTR-Dump Truck	001D-JKT			
12	TC-4052	Scania	G460CB 8X4	5694017	5635567	DC13144 L01	DTR-Dump Truck	001D-JKT			
13	TC-4053	Scania	G460CB 8X4	5694934	5635567	DC13144 L01	DTR-Dump Truck	001D-JKT			
14	TC-4054	Scania	G460CB 8X4	5695234	5635567	DC13144 L01	DTR-Dump Truck	001D-JKT			
15	TC-4055	Scania	G460CB 8X4	5695310	5635567	DC13144 L01	DTR-Dump Truck	001D-JKT			
TRUCK COAL CWB											
1	TV-1021	Nissan	CWB45	JNBCWB45ABAL03523	PFTB41CWDN	PF6-179665B	DTR-Dump Truck	001S-IPC	21-Apr-18		
2	TV-1022	Nissan	CWB45	JNBCWB45ABAL03525	PFTB41CWDN	PF6-179669B	DTR-Dump Truck	001S-IPC	21-Apr-18		
3	TV-1023	Nissan	CWB45	JNBCWB45ABAL03532	PFTB41CWDN	PF6-180223B	DTR-Dump Truck	001S-IPC	21-Apr-18		
SOIL COMPACTOR											
1	SC-2014	Caterpillar	CS533E	TJL06429	3054C	CST11874	CPT-Compactor	001D-JKT	11-Sep-18		
2	SC-2015	Caterpillar	CS533E	TJL06602	3054C	CST12058	CPT-Compactor	047C-BSI			
3	SC-2019	Bomag	BW212D	961584361039			CPT-Compactor	001D-JKT	9-Jan-24		
WATER TRUCK											
1	TV-3004	Unimog	ELM400 4X4 WATER	874742	D13A/M00C EC01	8709840	WAT-Water Truck	001D-JKT	2-Dec-18		

Lampiran 3 Data Maintenance TC-4010 Tahun 2024

AMT INTELLIGENT
ASSET MANAGEMENT

Hierarchy : [Branch: Northern Kalimantan] [Fleet: (35/82) ***] [Equipment: (15/337) ***]

Additional Filters :

Date Range : [01-Jan-2024 06:00 - 01-Jan-2025 06:00]

Equipment	Event	DT Reason	WO Description	WO Number	Scheduled Start	Scheduled End	Actual DT	Event Status
TC-4006	Planned	PM	250 SERVICE HOUR MAINTENANCE	0600CW162694	02-Jan-2024 22:05	02-Jan-2024 22:06	0.02	Completed
TC-4006	Breakdown	GR	Air Pressure Dropped BREAKDOWN	0600CW1641421	06-Jan-2024 07:05	06-Jan-2024 08:00	0.92	Completed
TC-4006	Breakdown	GR	Air Pressure Dropped BREAKDOWN	0600CW1641448	06-Jan-2024 09:40	06-Jan-2024 10:41	1.02	Completed
TC-4006	Breakdown	GR	Front Lamp RH OFF BREAKDOWN	0600CW1641681	07-Jan-2024 01:37	07-Jan-2024 01:57	0.33	Completed
TC-4006	Planned	RM	Machine Inspection Program	0600CW1642014	08-Jan-2024 07:53	08-Jan-2024 10:00	2.12	Completed
TC-4006	Breakdown	GR	Tyre Pos 11 Leaking BREAKDOWN	0600CW1642064	08-Jan-2024 20:45	08-Jan-2024 21:36	0.85	Completed
TC-4006	Breakdown	GR	Tyre Pos 10 Leaking BREAKDOWN	0600CW1642849	10-Jan-2024 14:40	10-Jan-2024 15:29	0.82	Completed
TC-4006	Breakdown	GR	707582 Air Pressure Dropped BREAKDOWN	0600CW1643276	11-Jan-2024 13:31	12-Jan-2024 17:08	27.82	Completed
TC-4006	Planned	CC	Replacement Tyre Pos 01 BACKLOG	0600CW1644272	13-Jan-2024 11:48	13-Jan-2024 12:00	0.20	Completed
TC-4006	Breakdown	GR	Tyre pos 03 leaking BREAKDOWN	0600CW1644336	14-Jan-2024 07:54	14-Jan-2024 08:01	0.12	Completed
TC-4006	Planned	RM	Machine inspection program	0600CW1645010	15-Jan-2024 13:19	15-Jan-2024 20:16	6.95	Completed
TC-4006	Other	GR	Tyre pos 07 Leaking BREAKDOWN	0600CW1645202	15-Jan-2024 21:28	15-Jan-2024 22:38	1.17	Completed
TC-4006	Breakdown	GR	Tyre Pos 06 Leaking BREAKDOWN	0600CW1647202	20-Jan-2024 16:53	20-Jan-2024 18:30	1.82	Completed
TC-4006	Breakdown	RM	Machine Inspection Program	0600CW1647824	22-Jan-2024 08:00	22-Jan-2024 10:00	2.00	Completed
TC-4006	Planned	PM	500 SERVICE HOUR MAINTENANCE	0600CW1635101	22-Jan-2024 19:10	22-Jan-2024 22:00	2.83	Completed
TC-4006	Breakdown	GR	Tyre Pos 05 Leaking BREAKDOWN	0600CW1650834	28-Jan-2024 18:55	28-Jan-2024 19:10	0.25	Completed
TC-4006	Breakdown	GR	Tyre pos 09 low pressure BREAKDOWN	0600CW1653234	02-Feb-2024 18:29	02-Feb-2024 20:20	1.85	Completed
TC-4006	Planned	RM	CM 500S - Action Taken Steering Oil Sample Rating	0600CW1653151	03-Feb-2024 15:02	03-Feb-2024 15:50	0.80	Completed
TC-4006	Breakdown	GR	Rear Lamp OFF BREAKDOWN	0600CW1653733	04-Feb-2024 01:34	04-Feb-2024 04:49	3.25	Completed
TC-4006	Planned	RM	Machine Inspection Program	0600CW1654316	05-Feb-2024 13:00	05-Feb-2024 20:24	7.40	Completed
TC-4006	Breakdown	GR	AC Hot Cold BREAKDOWN	0600CW1654983	07-Feb-2024 03:08	07-Feb-2024 09:45	6.62	Completed
TC-4006	Breakdown	GR	Tyre pos 10 leaking BREAKDOWN	0600CW1655536	08-Feb-2024 16:39	08-Feb-2024 22:08	5.48	Completed
TC-4006	Planned	PM	250 SERVICE HOUR MAINTENANCE	0600CW1640945	10-Feb-2024 22:00	10-Feb-2024 23:00	1.00	Completed
TC-4006	Breakdown	GR	Hose Radiator Leaking BREAKDOWN	0600CW1656786	11-Feb-2024 17:32	11-Feb-2024 22:38	5.10	Completed
TC-4006	Other	GR	Engine Coolant Low Level - OPPORTUNE	0600CW1657008	12-Feb-2024 07:35	12-Feb-2024 07:40	0.08	Completed
TC-4006	Planned	RM	Machine Inspection Program	0600CW1657062	12-Feb-2024 13:35	12-Feb-2024 15:00	1.42	Completed
TC-4006	Breakdown	GR	Error Engine Malfunction BREAKDOWN	0600CW1658338	16-Feb-2024 15:15	23-Feb-2024 08:55	161.87	Completed

Lampiran 4 Data Produksi TC-4010 Tahun 2024

AMT INTELLIGENT
ASSET MANAGEMENT

Hierarchy : [Fleet: (32/70) ***] [Equipment: (15/310) ***]

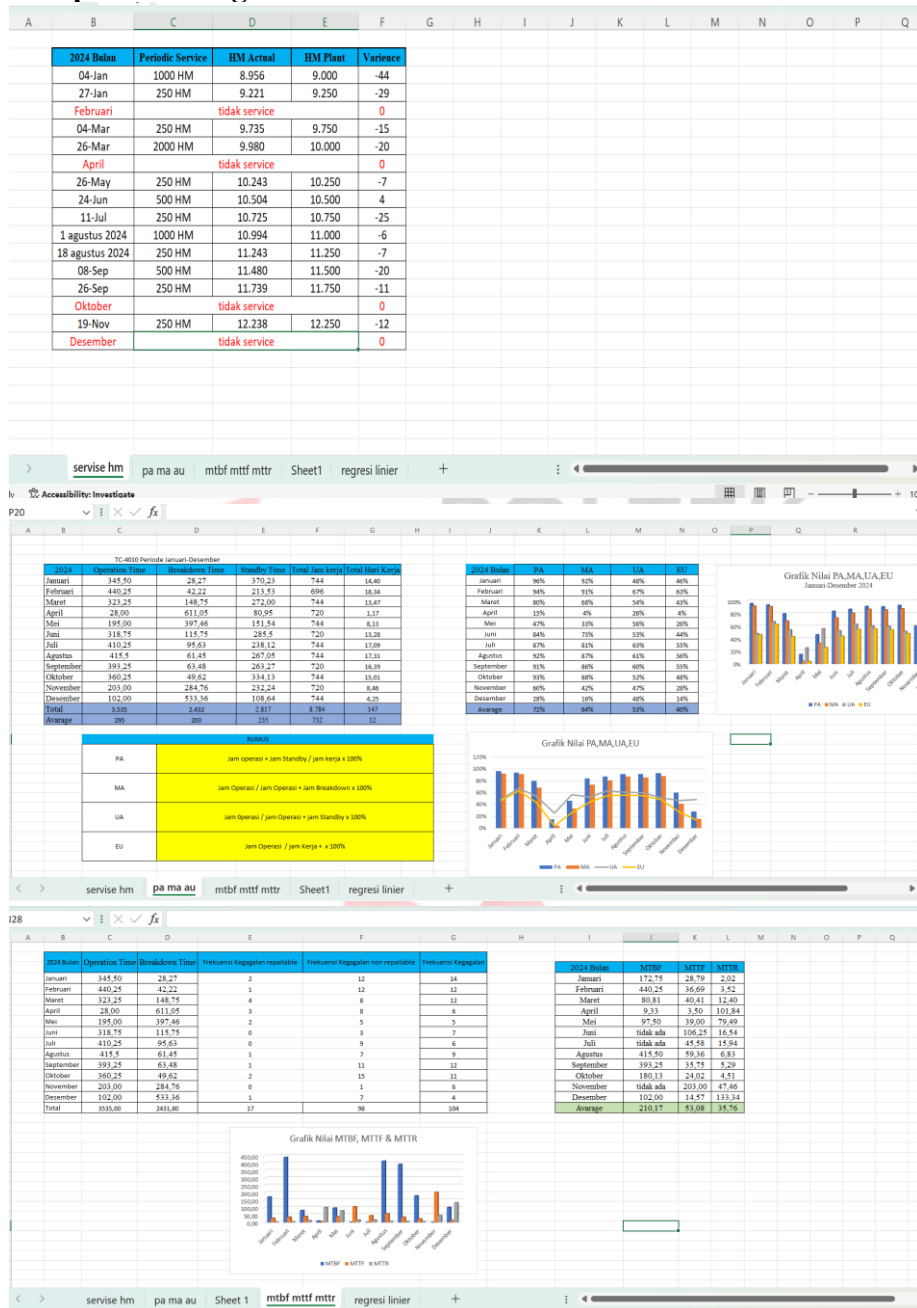
Date Range : [01-Jul-2024 00:00 - 01-Aug-2024 00:00]

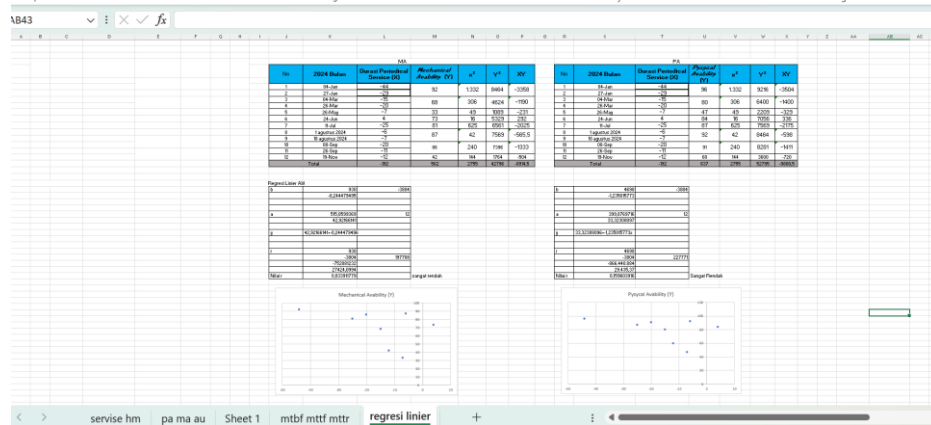
Additional Filters : [Asset Util UOM *: Eng - Hrs] [Analyse Downtime By:Downtime Scheduled]

Analyse By : [Group By *: Site] [Equipment Plan]

Equipment Plan	Start Usage	End Usage	Actual Usage	Scheduled Downtime	Breakdown Downtime	Scheduled Hours	Idle	Idle %	Physical Avail. %	Planned Usage	Planned Downtime	Utilisation of Available Hours
												Actual Target
SNO Coal												
TC-4006	11.354	11.609	255.25	136.75	3.58	744.00	348.40	47%	81%	407.39	74.40	42%
TC-4007	10.131	10.402	270.75	7.50	149.57	744.00	316.18	42%	79%	407.39	74.40	46%
TC-4008	11.013	11.357	344.50	41.10	15.70	744.00	342.70	46%	92%	407.39	74.40	50%
TC-4009	9.899	9.899	0.00	0.00	744.00	744.00	0.00	0%	0%	407.39	74.40	0%
TC-4010	10.573	10.983	410.25	15.78	79.85	744.00	238.12	32%	87%	407.39	74.40	63%
TC-4016	10.517	10.884	367.25	7.58	68.28	744.00	300.88	40%	90%	407.39	74.40	55%
TC-4017	10.871	11.132	261.50	27.00	207.12	744.00	248.38	33%	69%	407.39	74.40	51%
TC-4018	10.876	11.223	347.25	10.00	8.53	744.00	378.20	51%	98%	407.39	74.40	68%
TC-4019	10.795	10.805	10.25	0.00	740.90	744.00	0.00	0%	0%	407.39	74.40	331%
TC-4020	11.070	11.434	364.50	23.00	49.87	744.00	306.63	41%	90%	407.39	74.40	54%
TC-4051	1.029	1.437	408.00	11.27	2.40	744.00	322.33	43%	98%	407.39	74.40	56%
TC-4052	1.063	1.428	364.75	5.58	11.73	744.00	361.93	49%	98%	407.39	74.40	50%
TC-4053	936	1.327	391.00	15.35	4.68	744.00	332.97	45%	97%	407.39	74.40	54%
TC-4054	1.036	1.400	364.50	5.03	0.28	744.00	374.18	50%	99%	407.39	74.40	49%
TC-4055	1.138	1.551	413.00	4.42	3.08	744.00	323.50	43%	99%	407.39	74.40	56%
Total			4,572.75	310.37	2,089.60	11,160.00	4,194.43	38%	78%	6,110.88	1,116.00	56%
Average			304.85	20.69	139.31	744.00	279.63	38%	78%	407.39	74.40	56%

Lampiran 5 Pengolahan Data





Lampiran 6 Observasi *Maintenance* di *Workshop*



Periodical Service



Machine Inspection Program



Breakdown Maintenance



Breakdown Maintenance



Breakdown Maintenance



Breakdown Maintenance



Breakdown Maintenance



Breakdown Maintenance

POLITEKNIK SINAR MAS
BERAU COAL



SURAT BEBAS PLAGIASI

Dengan ini diterangkan bahwa TA/Skripsi yang ditulis oleh:

Nama : Muhammad Alif

NIM : 22303009

Prodi : Perawatan Mesin

Judul : Pengaruh Akurasi *Service Preventive Maintenance* Terhadap Produktivitas Dump
Truck Scania TC-4010

Berdasarkan hasil *scanning* menunjukkan tingkat plagiasi sebesar **11%** dan memenuhi syarat untuk tahapan selanjutnya dengan ketentuan yang berlaku.

Demikian surat ini dibuat untuk dipergunakan sebagaimana mestinya.

Berau, 14 Agustus 2025

Staf Perpustakaan,



BIODATA PENULIS



Penulis bernama lengkap Muhammad Alif, dilahirkan di Dolago Kabupaten Palu, 26 Oktober 2002. Penulis merupakan anak ketiga dari tiga bersaudara. Penulis telah menempuh pendidikan formal di SDN 014 Sambaliung, SMPN 06 Sambaliung, dan SMKN 1 Berau. Penulis meneruskan pendidikan di Program Studi Perawatan Mesin pada tahun 2022 dan terdaftar dengan NIM 22303009. Dalam masa perkuliahannya, penulis aktif diberbagai bidang non akademik, diantaranya: berhasil lolos pendanaan dan masuk dalam Top 163 program sosial proyek innovillage tingkat nasional yang diselenggarakan oleh PT. Telkom Indonesia dan Telkom University pada tahun 2023. Selain itu, penulis menjadi finalis pada Kompetisi Olimpiade Metrologi yang diselenggarakan oleh Kawan Lama Solution bekerja sama dengan Badan Standardisasi Nasional dan Mitutoyo pada tahun 2024. Dan terakhir, menjadi finalis dalam ajang National Welding Contest and Workshop UNS-API yang diselenggarakan oleh Universitas Sebelas Maret bekerja sama dengan Asosiasi Pengelasan Indonesia (API-IWS) diSurakarta pada 9 Juli 2025. Pada tahun 2023-2024, penulis melaksanakan kegiatan KPI (Kuliah Praktik Industri) di Workshop TEFA (*Teaching Factory*) Politeknik Sinar Mas Berau Coal selama 4 bulan. Lalu pada tahun 2024-2025, penulis menjalankan kegiatan Prakerin (Praktik Kerja Industri) selama 8 bulan di PT. Madhani Talatah Nusantara. Pada akhir tahun perkuliahan, penulis menyusun tugas akhir dengan judul “Pengaruh Akurasi *Service Preventive Maintenance* Terhadap Produktivitas *Dump Truck Scania TC-4010*”. Untuk keperluan penelitian, penulis dapat dihubungi melalui e-mail: alifmhd26@gmail.com