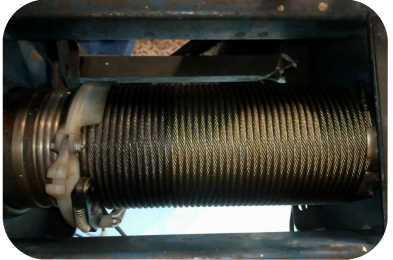
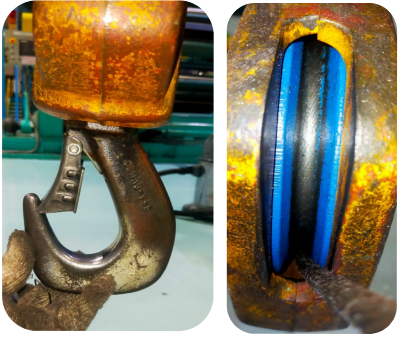
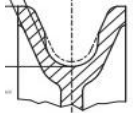
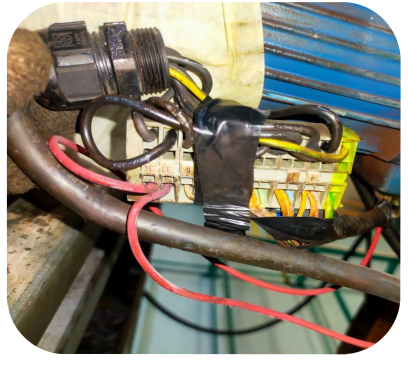
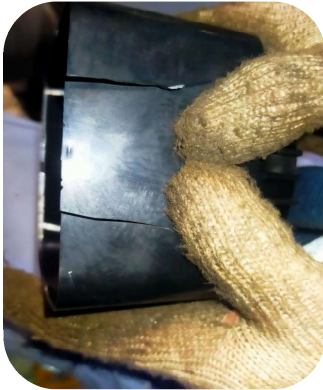


		LAPORAN PEKERJAAN			No. Formulir	HI-F-11-01
					Revisi	R 1
					Tanggal Revisi	01/02/2024
Customer	PT. MULTI SPUNINDO JAYA			☒	Preventive Maintenance	
	Address	Ds. Jabaran RT.008 RW.003 Jabaran, Balongbendo		☒	Pengecekan	
	User	Pak Gembong		☐	Pemasangan/Pembongkaran	
Technician	Electrical	RIZA		☐	Perbaikan	
	Mechanical	HENDRA, FERY		No. Report	LP-MSJ-2512004-PM	
Waktu	Tanggal	11/12/2025		Surat Perintah Kerja		
	Jam	10.00 - 16.00 wib		No. Form Maintenance		
Info Pekerjaan	Preventive Maintenance			No PO	5100031720	
	Area :	Line 1		Tanggal Laporan	14/12/2025	
Note Unit :	Type Unit	Double hoist	Wire rope / Chain	wire rope	Note Unit :	Type : KMH 90 B 2/8
	Merk Hoist	DEMAG	Cross Travel	KDF63B8/2KDR		Nr H1 : 34902642
	Type Hoist	DH168H12	Long Travel	KDF63B8/2AFM04		Nr H2 : 34902693
	SWL	2 X 1,6 Ton	Garansi Info	-		
DETAIL SURVEY / PENGECEKAN / PERBAIKAN						COMMENT AND INSPECTION RESULT
No.	URAIAN HASIL PEKERJAAN					(Mention any trouble, repair, replace, substandard or danger)
A	Diskripsi					
	A.1. Informasi / Permintaan dari User atau Customer / Info Trouble :					
	1.	Preventive Maintenance				
B	Hasil Pekerjaan		Waktu Pekerjaan			
	1. Progress Pekerjaan		MULAI	FINISH		
	A	Persiapan				
	1.1.	Proses pengurusan work permit	10.00	10.30		
	1.2.	Proses persiapan, mobilisasi Alat kerja	10.30	10.40		
	B.	Preventive maintenance Hoist	10.40	15.00		
	1.1.	» Detail Deskripsi : - cek kondisi unit - cek wire rope hoist selatan terdapat rantas 1 helai - cek wire rope hoist utara ok - lubrikasi wire rope - lubrikasi rail rope guide - lubrikasi gear roda cross travel - cek baut baut komponen electrical hoist - adjust panel hoist selatan. - cek baut baut komponen electrical long - cek roda cross OK - cek roda long OK - cek brake hoist OK - lubrikasi as brake hoist				
	1.1.	- Brake Cross H1 OK - cek brake long OK - cek limit up - down H1 dan H2 OK - cek pulley bottom block ok - ditemukan safety lact hoist selatan cacat. - pengencangan baut² support motor. - pengencangan baut² towing - ditemukan cover motor long indikasi pecah - ditemukan terminal motor long indikasi pecah. - ditemukan cover motor cross indikasi pecah - ditemukan terminal motor cross indikasi pecah. - hourmeter h1 5110308 - hourmeter h2 6065236 - cek dimensi rail sisi selatan dan utara - Trial - Cek Ampere				
	C.	Proses Finishing				
	1.1.	Proses Perapian Alat Kerja & Area Kerja.	15.00	15.10		
	1.2.	Test pengoperasian bersama user , Pembuatan laporan maintenance dan tandatangan PIC area	15.10	15.30		
	1.3.	Pengembalian alat kerja	15.30	16.00		
	1.4.	Selesai		16.00		
2. Penggantian Part yang Sudah Dilakukan						
	NO	ITEM	SPESIFIKASI	QTY	SATUAN	Keterangan tambahan
	1.					
	2.					

3. Kesimpulan						
3.1.	- Kondisi unit hoist dalam keadaan normal dan bisa digunakan kembali dengan baik.					
3.2.	- kondisi wire rope sisi selatan mulai ditemukan rantas 1 helai tetapi masih toleransi pemakaian					
3.3.	- Kondisi bantalan rubber torque gear box long mulai retak rekomendasi penggantian					
3.4.	- rekomendasi penggantian beberapa part					
4. Action Plan						
4.1.	Next PM					
4.2.	Penggantian part rekomendasi pada tabel B.5					
4.3.						
5. Rekomendasi Part						
	NO	ITEM	SPESIFIKASI	QTY	SATUAN	Keterangan tambahan
	1.	Rubber bantalan torque bracket motor long travel (Rek Maret 2025)	AFM04	2	set	C.10.1. VISUAL CEK kondisi rubber bantalan torque bracket mulai retak C.4.1. VISUAL CEK kondisi rubber bantalan torque bracket mulai retak
	2	Safety latch (Desember 2025)	bottom block demag DH168 2/1	1	Pcs	14. Pengecekan Botom Block Hoist 2 - safety latch kondisi CACAT spring Patah
	3	Modif Rumah terminal cross travel + cover terminal + penggantian terminal (Desember 2025)	demag DH168 2/1 rumah terminal + cover + modif support +penggantian terminal motor	2	set	15.1. Pengecekan motor cross travel (kondisi terminal motor cacat - rumah terminal tidak terpasang)
	4	Cover Fan motor cross travel (Desember 2025)	demag DH168 2/1	2	set	kondisi cover motor dan terminal motor cacat
	5	Cover Fan motor long (Desember 2025)	demag kdf 63 A 8/2	2	set	16.2 Pengecekan motor long travel cover fan motor kondisi mulai indikasi pecah
	6	Rumah terminal + CoverTerminal motor long travel include terminal (Desember 2025)	demag kdf 63 A 8/2	2	set	16.1. Pengecekan motor long travel terminal motor kondisi mulai indikasi pecah
	7					
C	Dokumentasi Hasil Pekerjaan					Keterangan tambahan
	1. Pengecekan cable flat kondisi sambungan (data record PM Agustus 2024)		2.Pengecekan gap brake hoist kondisi baik dalam batas toleransi (sisa 4 sim plate)			
	 		 			Cable flat kondisi sambungan

	3. Pengecekan panel hoist dan long travel (cleaning dan pengecekan kekencangan terminal) 	4. Pengecekan aksesoris motor long travel 	C.3.1. kondisi panel sudah dilakukan pengecekan pengencangan baut sisi utara C.4.1. VISUAL CEK kondisi rubber bantalan torque bracket mulai retak
	5. Cleaning dan lubrikasi wire rope Hoist 1 dan Hoist 2 	6. Pengecekan wirerope hoist selatan indikasi rantas 1 wire namun masih aman untuk digunakan 	Pengecekan wire rope ditemukan rantas 1 wire sudah dilakukan lubrikasi
	7. lubrikasi guide rope guide Hoist 1 dan Hoist 2 	8. pengecekan diameter roda cross 	Lubrikasi guide rope hoist dan gear roda cross
	9. Pengecekan diameter roda cross 	10. Lubrikasi gear roda cross travel Hoist 1 dan Hoist 2 	Proses lubrikasi roda cross travel

	11. Pengecekan Rail sisi Utara (44,5 x 45 mm)	12. Pengecekan Rail sisi Selatan (45 x 44,0 mm)	
			C11.1. Kondisi Rail Baik (hasil ukur mulai ada keausan maks 2 mm)
	13. Pengecekan Botom Block Hoist 1 - safety latch kondisi Baik	14. Pengecekan Botom Block Hoist 2 - safety latch kondisi CACAT spring Patah	
			C.14.1. Visual Check Kondisi rope sheave sudah BAIK  C.14.z. visual cek sarety latch CACAT Spring tidak berfungsi
	Pengecekan motor motor		
	15.1. Pengecekan motor cross travel (kondisi terminal motor cacat - rumah terminal tidak terpasang)	15.2 Pengecekan motor cross travel (kondisi terminal motor cacat - rumah terminal tidak terpasang)	
			kondisi cover motor dan terminal motor cacat

	16.1. Pengecekan motor long travel terminal motor kondisi mulai indikasi pecah	16.2 Pengecekan motor long travel cover fan motor kondisi mulai indikasi pecah																									
			kondisi cover motor dan terminal motor cacat																								
	17. roda long travel Baik	18. roda long travel Baik																									
			C.18.1 Visual cek Kondisi roda baik																								
C.18.1. standart keausan Roda																											
	7.2.2 Tread wear Travel wheels must be replaced when the following limit values are reached: <table border="1"> <thead> <tr> <th>Nominal travel wheel diameter</th><th>Minimum remaining flange width a</th><th>Minimum travel wheel diameter d</th><th>Max. difference in travel wheel diameters for coupled wheels</th></tr> <tr> <th colspan="4">imensions in mm (in)</th></tr> </thead> <tbody> <tr> <td>112 (4.41)</td><td>5.0 (0.20)</td><td>105.4 (4.15)</td><td>0.1 (0.003)</td></tr> <tr> <td>125 (4.93)</td><td>6.0 (0.24)</td><td>118.4 (4.66)</td><td>0.1 (0.003)</td></tr> <tr> <td>160 (6.30)</td><td>7.0 (0.28)</td><td>153.4 (6.04)</td><td>0.15 (0.006)</td></tr> <tr> <td>200 (7.88)</td><td>8.4 (0.33)</td><td>193.0 (7.60)</td><td>0.15 (0.006)</td></tr> </tbody> </table>		Nominal travel wheel diameter	Minimum remaining flange width a	Minimum travel wheel diameter d	Max. difference in travel wheel diameters for coupled wheels	imensions in mm (in)				112 (4.41)	5.0 (0.20)	105.4 (4.15)	0.1 (0.003)	125 (4.93)	6.0 (0.24)	118.4 (4.66)	0.1 (0.003)	160 (6.30)	7.0 (0.28)	153.4 (6.04)	0.15 (0.006)	200 (7.88)	8.4 (0.33)	193.0 (7.60)	0.15 (0.006)	Standar Keausan Roda Long travel Demag dia 125 mm -Tebal flange min = 6 mm -Diameter Roda Minimal =118,4 mm
Nominal travel wheel diameter	Minimum remaining flange width a	Minimum travel wheel diameter d	Max. difference in travel wheel diameters for coupled wheels																								
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	19. Proses trial	20. Proses trial																									
																											

D	Keterangan		
	Hasil Pengecekan Hoist		
	Ampere HOIST 1	Ampere HOIST 2	
	R. 1,8 /2,5 A	R. 1,9 /2,5 A	
	S. 1,7 /2,2 A	S. 1,8 /2,2 A	
	T. 2,0 /2,0 A	T. 2,1 /2,1 A	
	Hasil Pengecekan Cross		
	Ampere cross hoist 1 & 2		
	R. 1,0 / 1,1 A		
	S. 1,1 / 0,9 A		
	T. 1,0 / 1,1 A		
	Hasil Pengecekan Long		
	Ampere Speed 1 / speed 2		
	R. 0,9 / 1,1 A		
	S. 1,0 / 1,2 A		
	T. 1,0 / 1,1 A		
	Note :		
E	Lampiran		
	E.1. Form Maintenance		
	Mengetahui		
	Teknisi	SPV	USER
	RIZA		Pak Gembong



HELINDO tech Indonesia

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 Phone Office : (021) 7870217-8 Email : pthelindotech@gmail.com Website : www.helindotechindonesia.com



FORM MAINTENANCE

Customer : PT. MULIA SPUNDA JAYA
 Technician : P.22. HENDRA, FENY
 Problem info : MAINTENANCE HOIST
 (.....)

☒ Double Hoist ☐ Crane
☐ Chain Hoist ☐ Cargolift
☒ Rope Hoist ☐ Others

Service report number :

Urgent / Monthly / Yearly / Commissioning

Date : 11 / 12 / 20...

Status Unit	
☒ OK	☐ WARNING
☐ URGENT	

NOTE :

Model : Double Girder/Single Girder/Monorail
 Serial No. : 1 3490262 2 3490262
 SWL : 1.6 T 2 1.6 T
 Area : Line 1
 Location : Produksi Kandang
 Working Condition :

Brand Unit : DEMAG
 Brand Hoist / Type : KMH 30 A 2/B
 Brand Cross / Type : LPF 63 A 8/2
 Brand Long / Type : LPF 63 A 8/2
 Control Voltage : 42 V
 Brand Power Conductor / Type :

No.	ITEM	1	2	3	4	5	6	7
1	GIRDER							
1	1 Girder Construction							
2	2 Joint Plate Bolt							
3	3 Track Support Bolt							
4	4 Festoon Support Bolt							
5	5 Profile C-track							
6	6 Cable Trolley							
7	7 End Cable Clamp							
8	8 Towing Trolley							
9	9 Pendant Trolley							
10	10 End Stop							
2	ENDCARRIAGE							
1	1 Wheel							
2	2 Buffer 1,2,3,4							
3	3 Travel Drive Motor							
4	4 Travel Drive Brake							
5	5 Travel Drive Gear							
3	CABLE PENDANT							
1	1 Emergency Stop							
2	2 Cover							
3	3 Battery							
4	4 Switch on/off							
5	5 Rubber Bottom							
6	6 Legend							
7	7 Element Switch							
8	8 Receiver/Transmitter							
4	POWER RAIL							
1	1 Power Rail							
2	2 Bracket							
3	3 Current Collector							
4	4 Joinner							
5	5 Hanger							
6	6 Feed box							
7	7 Towing Long / Guide							
5	HOIST							
1	1 Wire Rope/Cable							
2	2 Wire Drum							
3	3 Rope anchorage							
4	4 Rope Guide							
5	5 Rope Guide Spring							
6	6 Hoisting Motor							
7	7 Hoisting Brake							
8	8 Hoisting Gears							
9	9 Hoisting Lubrication							
10	10 Hoisting Frame							
11	11 Gear Box							
12	12 Bottom Block							
13	13 Safety Latch							
14	14 Hour Meter							
15	15 Roller Counter Weight							
16	16 Towing Cross / Guide							
6	SAFETY DEVICE							
1	1 Hoist Upper Limit Switch							
2	2 Hoist Lower Limit Switch							
3	3 Hoist Overload Protection							
4	4 Hoist Overheat Protection							
5	5 Long Travel Limit Switch							
6	6 Cross Travel Limit Switch							
7	CABLES							
1	1 Hoist Power Cable							
2	2 Hoist Control Cable							
3	3 Mobile Pendant Control Cable							
4	4 Pendant Control Cable							
5	5 Travel Drives Power Cable							
8	CONTROL							
1	1 Hoist Control Panel							
2	2 Bridge Panel							
13	TROLLEY 1							
1	1 Trolley (crab) Motor							
2	2 Trolley (crab) Brake							
3	3 Trolley Gears							
4	4 Trolley Gears Lubrication							
5	5 Trolley (crab) Wheel							
6	6 Drive Shaft							
7	7 Trolley Buffer 1,2,3,4							
14	TROLLEY 2							
1	1 Trolley (crab) Motor							
2	2 Trolley (crab) Brake							
3	3 Trolley Gears							
4	4 Trolley Gears Lubrication							
5	5 Trolley (crab) Wheel							
6	6 Drive Shaft							
7	7 Trolley Buffer 1,2,3,4							
15	VOLTAGE TEST							
1	1 Voltage Control Bridge Panel							
2	2 Voltage Control Hoist							
16	RUN WAY							
1	1 Rail Dimension							
2	2 Rail Check							
3	3 Stopper Cross							
17	OTHER							
1	1 CH Wireless							
2	2 SN Wireless							
3	3 Type Wireless							
4	4 Junction Box							
OTHER INFORMATION								
REPORT								
1 OK 4 Repair 7 Adjust								
2 Warning 5 Replace								
3 Urgent 6 Lubricate								

Tela selesai dilakukan pengecekan :
 1. OK. Wire rope kawat rusak. 1 kawat
 2. OK. Wire rope kawat rusak. 1 kawat
 3. OK. Wire rope kawat rusak. 1 kawat
 4. OK. Wire rope kawat rusak. 1 kawat
 5. OK. Wire rope kawat rusak. 1 kawat
 6. OK. Wire rope kawat rusak. 1 kawat
 7. OK. Wire rope kawat rusak. 1 kawat
 8. OK. Wire rope kawat rusak. 1 kawat
 9. OK. Wire rope kawat rusak. 1 kawat
 10. OK. Wire rope kawat rusak. 1 kawat
 Kondisi saat ini : Hoist dapat beroperasi dengan normal.

NOTE : Amper : Hoist 1 1.0 / 1.1 A 2.0 / 2.1 A 3.0 / 3.1 A 4.0 / 4.1 A 5.0 / 5.1 A 6.0 / 6.1 A 7.0 / 7.1 A 8.0 / 8.1 A 9.0 / 9.1 A 10.0 / 10.1 A
Hoist 2 1.0 / 1.1 A 2.0 / 2.1 A 3.0 / 3.1 A 4.0 / 4.1 A 5.0 / 5.1 A 6.0 / 6.1 A 7.0 / 7.1 A 8.0 / 8.1 A 9.0 / 9.1 A 10.0 / 10.1 A
Long 1.0 / 1.1 A 2.0 / 2.1 A 3.0 / 3.1 A 4.0 / 4.1 A 5.0 / 5.1 A 6.0 / 6.1 A 7.0 / 7.1 A 8.0 / 8.1 A 9.0 / 9.1 A 10.0 / 10.1 A

Spare parts are replaced			We Recommended you to Order		
No.	Description	Part No	No.	Description	Part No
1			1	Safety Latch hoist demag. 1.6 T	1
2			2	Lower motor long kmp 63 A 8/2	2
3			3	Lower motor hoist	3
4			4	Hoist motor hoist	4
5			5	Hoist motor long kmp 63 A 8/2	5
6			6		6

Service Technician

The client was informed about the found detected and the danger resulting there from

WORKING HOURS

Customer