

RIYADH METRO PACKAGE 3: L4/5/6



CARETAKING/PREVENTIVE MAINTENANCE

Preventive I	Maintena	nce
Bi-Weekly	PM	Х
Month	PM	Х
2 Month	PM	Х
3 Month	PM	
6 Month	PM	
9 Month	PM	
12 Month	PM	







Train No	621
Date	28/02/2022

No.	Inspection	CHECKLIST	STATUS	COMMENTS							
		Traction torque inspection	ОК	FOOT 1		FOOT 2		FOOT 3		FOOT 4	
				1	2	3	4	5	6	7	8
				ok	Ok	ok	ok	ok	ok	ok	ok
				FOOT 5 FOOT							
	PM 2W			9	10	11	12	HC1			
1				ok	ok	ok	ok				
				FOOT 1		FOOT 2				FOOT 4	
				13	14	15	16	17	18	19	20
				ok	ok			ok ok ok		OK	ok
				FOOT 5		FOOT 6		HC2			
				ok	ok	ok	ok	HCZ			
	PM 2W	Collector shoe wearing inspection	ОК	HC1 - B1	HC1 - B1	HC1 - B2	HC1 - B2	HC2 - B1	HC2 - B1	HC2 - B2	HC2 - B2
2				L1	R1	L2	R2	L1	R1	L2	R2
				23.4			23.1		23.7		23.33
2	DN 4 2047		014	HC1 LEFT		HC1 RIGHT		HC2 LEFT		HC2 RIGHT	
3	PM 2W	Derailment detector inspection	OK	18r	mm	18mm		18mm		18mm	
4	PM 2W	Filters cleaning (HVAC-PCE-ACE-BCE)	ОК								
5	PM 2W	Software Update check (OBCN-TCMS-ACE-PCE)	ОК								
6	PM 2W	Brake Pads inspection	ОК								
7	PM 2W	Batteries	ОК	HC1 :113.6 V HC2 : 112.6 V							
8	PM 2W	HVAC temperature measurement inspection	ОК	HC1: 24 HC2 : 24							
9	PM 2W	Open Punchlist Activities	_								

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10	PM 2W	Check for any oil leakage in the lateral and vertical dampers	OK	
11	PM 2W	Check for any increase or leakage of grease in primary suspension, axle box and compressor body	ОК	
12	PM 2W	Check potential corrosion within the wheels surface and flange	ОК	
13	PM 2W	Check the dampers of the beacon antennas UFR	ОК	
14	PM 2W	Check CCD (carbon collector device) shoe for any crack or damage	ОК	
15	PM 2W	Check gearbox for any oil leakage	ОК	
16	PM 2W	Check gearbox any leakage from door	OK	
17	PM 2W	Gearbox labyrinth R Ring inspection	ОК	
18	PM 2W	Check axle box cover for any grease leakage	ОК	
19	PM 2W	Check cable brackets and UFR covers and skirts	ОК	
20	PM 2W	Check levelling valve, brake caliper and brake pads for any damages	ОК	
21	PM 2W	Check speed sensor covers	OK	
22	PM 2W	Check CCD glass for any damages	OK	
23	PM 2W	Check coupler cleanliness, pneumatic hole and sand reservoir	ОК	
24	PM 2W	Check electrical coupler spring and pneumatic hose	ОК	
25	PM 2W	Check gangways for any external damages	ОК	
26	PM 2W	Axle Boxes screws inspection	ОК	
27	PM 2W	Wake up the train with high voltage	ОК	
28	PM 2W	Use train-tracer to check auto-test and network status	ОК	
29	PM 2W	Use IP scanner to check connectivity of all devices through MPU	ОК	
30	PM 2W	PAPIS Display Visual Status	ОК	

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31	PM 2W	Check the IOS of the trains	OK	IOS 148 - No Impact
32	PM 2W	Functional HVAC test part 1: Run HVAC in testing mode for 1 hour and check the status of the ventilation, heater and cooling systems in Train-Tracer	ОК	
33	PM 2W	Functional HVAC test part 2: Run HVAC in normal mode through MONA and force variables to run to check all parts healthiness	ОК	
34	PM 2W	Visual Inspection of HVAC and Status of Gas level	ОК	
35	PM 2W	Move train to rotate the wheels one quarter, to facilitate dispersing of grease around the wheel axle bearing	ОК	
36	PM 1M	Move train for 5 min or at least 2 km @ 15 kph using third rail	OK	Moved to stabling
37	PM 1M	Static: Functional test of the parking brake and the service brake using PECD	OK	
38	PM 1M	Static: Applying the EB with PECD (5 times)	OK	
39	PM 1M	Dynamic : Make several service brake applications	OK	
40	PM 1M	Dynamic : Applying the EB with PECD (5 times)	OK	
41	PM 1M	Functional door test: Operate each door 5 times with motor (PECD)	OK	
42	PM 1M	Conical spring inspection	OK	
43	PM 2M	Visually check the entire train set (including bogies) to detect any traces of oxidation. If traces of oxidation found, clean the affected area and apply a coat of grease.	OK	
44	PM 2M	Visually check the condition of the exposed rubber parts: primary springs, secondary suspension, resilient joint, door and window seals.	ОК	
45	PM 2M	Check the condition of the wheels' protective grease. Renew the protection, if necessary, using recommended oil.	ОК	
46	PM 2M	EVR Logs downloading status	OK	
47	PM 2M	NVR Logs downloading status	OK	
48	PM 2M	Internal Smoke Detector Cleaning	OK	

TRAIN WORKING HOURS	120760 Mins
TRAIN MILEAGE	25494.4 Kms
DATE OF INSPECTION:	28-Feb-2022
INSPECTOR:	HAFEEZ,ALTULYAHI,ALQUFLIE,Alyami,Gogul, Mir Ali, Faizal hafeez, Shuryami,Rami, Haris
Team Leader / Manager	Ayemen & Bortosz

ABBAS Osama