



## Inspection Form

**Form WMSC-IR-1**

Washington Metrorail Safety Commission

**Agency/Department Information**

<b>Inspection Date</b>	YYYY/MM/DD 2024/04/22	<b>Report Number</b>	20240417-WMSC-MAL-1
<b>Rail Agency Name</b>	Washington Metropolitan Area Transit Authority	<b>Rail Agency Department</b>	Name
<b>Rail Agency Department</b>	CMNT	<b>Contact Information</b>	
<b>Inspection Location</b>	Brentwood S&I Shop - Railyard B99 601 T Street NE Washington DC 20002		

**Inspection Summary**

<b>Inspection Activity #</b>	1
<b>Activity Code</b>	VM-WI-PI
<b>Inspection Units</b>	1
<b>Inspection Subunits</b>	1
<b>Defects (Number)</b>	0
<b>Recommended Finding</b>	No
<b>Remedial Action Required<sup>1</sup></b>	No
<b>Recommended Reinspection</b>	No

**Activity Summaries**

<b>Inspection Activity #</b>	1	<b>Inspection Subject</b>	On-site Observation				<b>Activity Code</b>	VM-WI-PI			
<b>Job Briefing Employee Name/Title</b>	WMATA Inspection	<b>Accompanied Inspector?</b>	No	<b>Out Brief Conducted</b>		<b>Time</b>	07:00 AM	<b>Outside Shift</b>	No		
<b>Related Reports</b>	ETP 140134	<b>Related CAPS / Findings</b>			N/A						
<b>Related Rules, SOPs, Standards, or Other</b>	Ref	Rule or SOP			Standard		Other / Title		Checklist Reference		
	METRORAIL OPERATING RULEBOOK FIRST EDITION Effective: Sept 1, 2023, Safety Rules	N/A			N/A		N/A		N/A		
<b>Inspection Location</b>	Main Track	Yard	Station	OCC	RTA Facility	WMSC Office	<b>Track Type</b>	At-grade	Tunnel	Elevated	N/A
		X									
<b>Line(s) &amp; Track Number</b>	Brentwood S&I Shop - Railyard B99 601 T Street NE Washington DC 20002			<b>Chain Marker and/or Station(s)</b>			From	To			
							N/A	N/A			
<b>Vehicles</b>	<b>Head Car Number</b>		<b>Number of Cars</b>		<b>Equipment</b>		N/A				
	N/A		N/A								
<b>Description</b>	<p>Participated in the third set of wheelset disassembly and inspection process at the Brentwood S&amp;I Shop. Pulled axle 56477 from railcar 7258, and axle LRZ-576 from railcar 7259. Personnel from the Brentwood truck shop, CENV, CMOR, Quality assurance, and WMSC were present. CMOR took the lead in the cleaning, measurement, and inspection process. The following observations were noted. - Inspections of the third set of 4 wheelsets per ETP 140134 at a 20,000 miles interval. - The wheels bore was cleaned with a rag. - The wheels bore, and axles had signs of damage from the de-mounting process. Hydraulic assist is not being used to demount the wheels. CENV engineering is working on a process to add hydraulic assist chamfers to new wheels in house to prevent wheel and axle damage during the de-mounting process. - The wheel bore diameter was then measured at three locations. Dimensions were compliant with the original measurements. - The wheel bore was then coated with a red die-penetrant spray, and they were set aside to sit for 30 minutes to allow this very thin die-penetrant fluid to go in any possible cracks. - After 30 minutes the die-penetrant is wiped clean with a rag. The die-penetrant will remain in any possible cracks. The wheel bore is then sprayed with a white developer spray to visually enhance any sign of cracks. None were detected on all four wheels. - WMSC noted the following diameters of the wheels based on the wheel size diameter written on the face of the wheel. See Attached Photos #1 through #4. - Railcar 7258, axle 56477, - MS wheel 18220 diameter 27.975 - GS wheel 18273 diameter, 27.990, - Railcar 7259, axle LRZ-576, - MS wheel 17452, diameter 28.0 - GS wheel 17478, diameter 28.0</p>							<b>Number of Defects</b>		0	
								<b>Recommended Finding?</b>		No	
								<b>Remedial Action Required?</b>		No	
								<b>Recommended Reinspection?</b>		No	
<b>Remedial Action</b>											

<sup>1</sup> The rail transit agency must provide WMSC with the necessary evidence (e.g. maintenance work order system records, photos, documentation, records, data, or other evidence) to close out the Remedial Action. Closeout of Remedial Actions may also be subject to ongoing WMSC verification inspections to ensure corrections are sufficient and effective.

<b>Inspector in Charge's Signature</b>	<b>Date</b> 2024/04/22
<b>Inspector in Charge's Name</b> Manuel Lopez	<b>Inspection Team</b> N/A