OpsAuditHub opsauditihub.com	DOC ID: **SAF-0227**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **FMVSS 105 / OSHA 29 CFR 1910.178 / DOT 49 CFR 396.11**	AUDIT FREQUENCY: **Daily Pre-Shift**

Hydraulic Brake Air System Audit Daily Log Sheet

Operational Scope: This daily audit log governs the pre-operation verification of combined hydraulic brake and air-assist systems on commercial fleet vehicles. It ensures early detection of pressure drops, fluid contamination, and mechanical wear to mitigate catastrophic brake failure risks.

MANDATORY PPE:	Safety Glasses (ANSI Z87.1), Nitrile Chemical-Resistant Gloves, Steel-Toe Safety Boots (ASTM F2413), High-Visibility Reflective Vest, Bump Cap or Hard Hat
PREREQUISITES:	Vehicle engine off with parking brake fully engaged and wheels chocked. | System pressure bled down or stabilized to baseline operating levels per manufacturer specifications. | Verify work bay is well-ventilated and free of combustible materials.

PNEUMATIC & AIR-ASSIST PRESSURE INTEGRITY

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Air Compressor Governor Cut-In/Cut-Out**	Governor cuts in between 85-100 PSI and cuts out between 120-135 PSI without erratic cycling.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Air Reservoir Moisture Evacuation**	Open manual drain valves on primary and secondary air tanks; verify absence of excessive oil or water accumulation.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
3	**Air System Static Leak Test**	With brakes applied, air pressure drop must not exceed 3 PSI per minute for combination vehicles.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
4	**Low Air Pressure Warning Indicator**	Visual and audible low-air warning activates before pressure drops below 60 PSI.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

HYDRAULIC ACTUATION & FLUID MECHANICS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Master Cylinder Reservoir Fluid Level**	Brake fluid level is within 1/4 inch of the reservoir rim and meets DOT 3 or DOT 4 specifications.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
6	**Hydraulic Booster / Hydro-Vac Unit**	Inspect booster housing and hydraulic lines for active weeping, external fluid leaks, or hose abrasion.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
7	**Brake Pedal Travel and Reserve**	Apply firm foot pressure; pedal must hold firm without spongy travel or sinking toward the floorboard.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

MECHANICAL LINKAGES & SAFETY INTERLOCKS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Slack Adjusters and Pushrod Travel**	Mechanical linkages show no excessive play, missing cotter pins, or misalignment during actuation.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
9	**Emergency Spring Brake / Parking Brake Hold**	Engage parking brake and attempt to pull forward gently in low gear; vehicle must hold securely.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
10	**Brake Lining and Rotor/Drum Condition**	Friction material thickness exceeds minimum safety limit of 1/4 inch with no severe scoring or cracking.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A

Certified Fleet Technician / Inspector Signature: _____	**Date / Time:** _____	**Badge / Cert #:** _____
Fleet Maintenance Supervisor / Safety Manager Sign-off: _____	**Review Date:** _____	**Audit Status:** [ ] Approved [ ] Rectify

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