OpsAuditHub opsaudithub.com	DOC ID: **SAF-0239**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **FMCSA 49 CFR § 393.75 & OSHA 29 CFR 1910.178**	AUDIT FREQUENCY: **Weekly / Pre-Trip Fleet Audit**

Commercial Tire Tread Depth Log Inspection Checklist

Operational Scope: Establishes mandatory fleet maintenance protocols to identify excessive tire wear, structural damage, and inflation discrepancies. Mitigates catastrophic blowout hazards and maintains strict compliance with federal highway safety mandates.

MANDATORY PPE:	Steel-Toe Safety Boots (ASTM F2413), Safety Glasses with Side Shields (ANSI Z87.1), Heavy-Duty Leather or Cut-Resistant Gloves, High-Visibility Reflective Safety Vest (ANSI/ISEA Class 2), Bump Cap or Hard Hat
PREREQUISITES:	Vehicle parked on level, solid surface with parking brake fully engaged and wheels chocked. | Ignition turned off and keys removed; lockout/tagout procedures applied if undergoing active mechanical maintenance. | Tire tread gauge calibrated and compressed air inflation line inspected for operational safety.

TREAD DEPTH MEASUREMENT & WEAR PATTERN ANALYSIS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Steer Axle Tires - Inner/Outer Grooves**	Tread depth measures at or above 4/32 inch (3.2mm) across major grooves without falling below the legal minimum.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Drive & Trailer Axle Tires - Main Grooves**	Tread depth measures at or above 2/32 inch (1.6mm) across all primary tread channels.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Tread Wear Pattern (Cupping, Feathering, Flat Spots)**	Tread surface wears evenly across the contact patch; no signs of cupping, diagonal wear, or excessive center/shoulder wear indicating alignment issues.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

CASING, SIDEWALL, AND STRUCTURAL INTEGRITY CHECK

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Sidewall Cuts, Bulges, and Cracks**	Sidewalls are free from deep cuts, exposed body cords, bulges, or localized blisters indicating internal structural failure.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
5	**Dual Tire Spacing and Debris Lodging**	Dual assemblies maintain proper clearance; no rocks, metal fragments, or foreign objects lodged between paired tires.	**Standard**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Valve Stems and Valve Caps**	Valve stems are securely seated, undamaged, uncracked, and fitted with functional metal valve caps to prevent air loss.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**

INFLATION PRESSURE & WHEEL ASSEMBLY VERIFICATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
7	**Cold Inflation Pressure (PSI)**	Tire pressure matches manufacturer placard specifications (within +/- 5 PSI tolerance).	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
8	**Rim, Flange, and Lug Nut Security**	Rims show no cracks, severe rust trails, or bends. All lug nuts are present with no rust streaks indicating looseness.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

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

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