OpsAuditHub opsauditihub.com	DOC ID: **SAF-0241**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **FMCSA 49 CFR § 393.75 & OSHA 29 CFR 1910.178**	AUDIT FREQUENCY: **Weekly Pre-Trip Audit**

Commercial Tire Tread Depth Log Sop Template

Operational Scope: Establishes a standardized procedure for measuring and logging commercial fleet tire tread depth to prevent catastrophic blowout hazards. Ensures full compliance with federal motor carrier safety regulations and extends overall asset lifecycle.

MANDATORY PPE:	Steel-Toe Boots (ASTM F2413), Safety Glasses with Side Shields (ANSI Z87.1), High-Visibility Reflective Vest (ANSI/ISEA 107), Heavy-Duty Mechanics Gloves, Bump Cap
PREREQUISITES:	Vehicle must be parked on a flat, level, and stable surface with the parking brake fully engaged. | Engine must be completely shut off, and chocks must be securely placed behind and in front of drive wheels. | Tire tread must be free of large rocks, mud, and excessive debris before measurement takes place.

TREAD DEPTH MEASUREMENT & GAUGE PROTOCOL

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Steer Axle Outer Groove Depth**	Tread depth must measure at or above 4/32 inch using a calibrated depth gauge.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Steer Axle Inner Groove Depth**	Tread depth must measure at or above 4/32 inch uniformly across the inner major grooves.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
3	**Drive & Trailer Axle Groove Depth**	Tread depth must measure at or above 2/32 inch across all measured major tread grooves.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
4	**Tread Wear Indicator (TWI) Check**	Rubber wear bars must not be flush with the surrounding tread surface.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

CASING INTEGRITY & WEAR PATTERN ANALYSIS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Shoulder and Sidewall Inspection**	Absence of bulges, deep cuts exposing cords, cracking, or separation in the sidewall.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
6	**Irregular Wear Pattern Assessment**	No signs of severe cupping, feathering, or one-sided wear exceeding allowable differential limits.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
7	**Dual Tire Matching & Spacing**	Dual tires must be within 1/4 inch of each other in overall diameter and proper spacing maintained.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A

VALVE STEM & INFLATION PRESSURE VERIFICATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Tire Inflation Pressure Check**	PSI must match the manufacturer placard specification (+/- 5 PSI tolerance).	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
9	**Valve Stem and Cap Inspection**	Metal valve caps must be securely fitted; no air leaks, cracking, or dry rot on valve stems.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A
10	**Rim and Wheel Lugs Security**	No rust trails indicating loose lug nuts, and rims free of cracks or structural distortion.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

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

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