

Company Name: _____

Maintenance Forms & Logs

Date: _____

Log ID: _____

Version: 1.0

Heavy Equipment Undercarriage Track Tension Inspection Log

1.0 Form Objective & Asset Scope

This inspection log is designed to document the measurement and adjustment of track tension on heavy equipment undercarriages (e.g., excavators, bulldozers, track loaders). Proper track tension is critical for preventing premature wear of sprockets, rollers, idlers, and track chains, as well as ensuring machine stability and operator safety. This log supports reliability by providing a consistent record for trend analysis and proactive maintenance scheduling.

2.0 Administrative & Asset Details

Date: _____

Technician Name: _____

Machine ID / Asset Tag: _____

Equipment Make & Model: _____

Hour Meter Reading: _____

Undercarriage Side (Left / Right): _____

3.0 Inspection / Parameter Checklist

- ☐ Pass ☐ Fail - Verify machine is on level ground and engine is off with tracks blocked.
- ☐ Pass ☐ Fail - Measure track sag (drop) at midpoint between front idler and top carrier roller using a straightedge and tape measure.
- ☐ Pass ☐ Fail - Record measured sag value (mm or inches) and compare to OEM specification range.
- ☐ Pass ☐ Fail - Inspect track adjuster grease fitting for damage or leakage.
- ☐ Pass ☐ Fail - Check track chain for excessive wear, broken links, or missing pads.
- ☐ Pass ☐ Fail - Inspect sprocket teeth for hooking, cracking, or uneven wear patterns.
- ☐ Pass ☐ Fail - Examine carrier rollers and track rollers for leakage, flat spots, or seized rotation.
- ☐ Pass ☐ Fail - Verify front idler flange thickness and bushing wear within OEM limits.
- ☐ Pass ☐ Fail - Lubricate track adjuster grease fitting if required per OEM schedule.
- ☐ Pass ☐ Fail - Adjust track tension by adding or releasing grease from the adjuster valve, then re-measure sag.
- ☐ Pass ☐ Fail - Record final sag measurement after adjustment.
- ☐ Pass ☐ Fail - Operate machine forward and reverse for 10 metres, then re-check sag for settling.

4.0 Deficiencies & Work Order Generation

Issue Description (e.g., worn sprocket, leaking roller, broken track pad):

Component Location (e.g., left front idler, right carrier roller #2): _____

Severity (Critical / Major / Minor): _____

Parts Required (include part numbers if known): _____

Recommended Action (e.g., replace, rebuild, monitor): _____

Work Order Number (if generated): _____

5.0 Sign-off & Return to Operations

Maintenance Technician Signature: _____ Date: _____

Technician ID / Badge Number: _____ Date: _____

Supervisor / Lead Hand Review: _____ Date: _____

Equipment Operator Acknowledgment (if applicable): _____ Date: _____

Regulatory Disclaimer: This maintenance log is a generic template. The end-user assumes all liability for validating all inspection parameters, PM frequencies, and tolerances against specific OEM machinery manuals before active shop floor deployment.