

G-19

MAINTENANCE MECHANIC TRAINING

SKILL CHECK GUIDE

Duty G: Conveyors
G-19: Troubleshoot Chip Conveyor

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Rationale

This Skill Development Guide provides the knowledge a Learner needs to troubleshoot a typical chip conveyor. To be signed off, a Learner must be able to identify, quickly and safely, the immediate problem. Learners must also be able to recognize operating conditions that could have been responsible for the problem, and to propose procedures for correcting both the immediate problem and the conditions. The conveyor, after the problem and conditions are corrected, must operate normally.

Skill Check Set-Up

Locate a chip conveyor that can be used for the demonstration. Insert a problem. You might, for example, manually trip the drive motor overload breaker, or loosen the tension on the drive belt. Do not create a problem that could be dangerous or could permanently damage the conveyor. Provide the Learner with the tools, materials, and resources needed to troubleshoot the chip conveyor.

What The Learner Will Need

This section contains the safety information, tools, and resources the Learner will need to troubleshoot a chip conveyor.



- Follow all Caterpillar facility safety standards when performing this task.
- The pickup end of chip conveyors is usually in a confined space; a permit, harness, and special precautions are required.



- flashlight
- hand tools necessary for removing inspection covers
- wrenches necessary for adjusting conveyor, drive belt, and drive chain tension
- pry bar
- come-a-long



- conveyor documentation and prints
- the person who reported the conveyor problem or symptoms
- maintenance records on the conveyor
- the person responsible for Preventive Maintenance on the conveyor
- Electrician
- Welder



Skill Check

Given a chip conveyor that is not working correctly or at all, troubleshoot the problem.

Needs
Mastered Practice

Safe Work Practices

- | | | |
|-------|-------|---|
| _____ | _____ | 1. All Caterpillar facility safety standards must be demonstrated when performing this task. |
| _____ | _____ | 2. Before entering a chip pickup pit, the Learner must apply for a confined space entry permit. |

Task Standards

- | | | |
|-------|-------|---|
| _____ | _____ | 1. The conveyor problem must be correctly identified as quickly as possible. |
| _____ | _____ | 2. The most efficient procedures for correcting the problem must be proposed. |
| _____ | _____ | 3. After the problem is corrected, the conveyor must operate normally. |



Evaluator's Sign-Off

The Learner has demonstrated safe work practices and competent performance of the task.

Evaluator: _____ Date: _____

Learner: _____ Clock No: _____

