

January 2026:

- Rating aid was trialed at this workshop, and feedback was provided by the raters
 - Afton will retake photos with a more zoomed in frame of reference similar to the current Manual 21 rating aid photos.
 - Raters also expressed desire to highlight areas of distress on the photos, so it is clear what distress is being referenced in the photo.
 - EX: a red circle highlighting the area in the photo.
 - When new photos are available, these highlighted areas will need to be identified by the rating community.
- Color-coded workshop model was trialed at the January 2026 workshop.
 - Statistical model of colors needs to be reviewed for the gear test types.
- L-33-1 rating sheet used for workshop.
 - New photos for areas 1 and 2 for new 31XX hardware.
- Additions to L-37-1 Rating Tools:
 - It was decided that a written definition for RIDGING would be helpful. Since ridging is a surface distress and not a visual one capturing rating values by definition is a better approach than photos.
 - Example: Definitions of 6,7,8 written out
 - Example of wear step definition in test method (section A9.3)
 - Propose RIDG definition be added to the L-37-1 test method (shown below):

Wear Rating in L-37-1 Manual:

A10.3.6 *Wear*—Confirm the presence of a wear step both visually and tactilely.

A10.3.6.1 *Trace*—Tool marks are easily discernible at heel and toe area without a wear step.

A10.3.6.2 *Trace/Light*—Tool marks are barely discernible at heel and toe area without a wear step.

A10.3.6.3 *Light*—Absence of tool marks at the heel or the toe without a wear step.

A10.3.6.4 *Light/Medium*—The presence of a wear step.

A10.3.6.5 *Medium*—Shall have an easily discernible wear step, midway between Light and Heavy.

A10.3.6.6 *Heavy*—The severity level is so intense/severe that the distress is instantaneously recognizable.

TABLE A10.1 Gear Rating Guidelines

Use for All Distress Except Pitting/Spalling	
Numerical Value	Level of Distress
10.0	None
9.0	Trace
8.0	Trace-Light
7.0	Light
6.0	Light-Medium
5.0	Medium
4.0	Medium-Heavy
3.0	Heavy
2.0	Heavy to Catastrophic (up to 50 % of gear tooth contact area)
1.0	Heavy to Catastrophic (greater than 50 % and less than 100 % of the gear tooth contact area)
0.0	Catastrophic (100 % of the gear tooth contact area)

A10.X **RIDGING** *Severity Levels:*

A10.X.1 Document the most severe level for each individual distress. Use the photographs in ASTM Distress Manual 21 as examples.

A10.X.2 *None*—Absence of distress.

A10.X.3 *Trace*—Barely discernible, **not physically noticeable with rating tool (pick, pencil, etc).**

A10.X.4 *Light*—**Discernible with use of rating tool (pick, pencil, etc.)**

A10.X.5 *Medium*—Easily discernible, midway between light and heavy.

A10.X.6 *Heavy*—Intense or severe (the severity level is such that the distress is instantaneously recognizable).

