### One Sided Wear

**Appearance**
Wear increasing from one side to the other.

**Probable Cause**
Out of alignment specification parameters (camber, toe, axle parallelism).

**Corrective Action**
Check alignment and inspect for worn parts.

**Tire Disposition**
Continue to run until minimum tread depth is reached.

### Shoulder Step Wear

**Appearance**
Partial or full depression of the inside or outside shoulder tread rib.

**Probable Cause**
This condition is common on radial tires in slow wearing operations.

**Corrective Action**
None

**Tire Disposition**
Continue to run or rotate.

### Erosion/River Wear

**Appearance**
Circumferential worn area situated on the sides of the tread ribs.

**Probable Cause**
Condition most commonly occurs on slow wearing radial tires in steer or trailer position (free rolling).

**Corrective Action**
None

**Tire Disposition**
Continue to run.

### Depression Wear

**Appearance**
One or more interior ribs (not center) depressed more than adjacent ribs.

**Probable Cause**
Incorrect air pressure, worn mechanical part, or non-uniformity such as mismount.

**Corrective Action**
Check air pressure and mechanical issues.

**Tire Disposition**
Rotate or retread.

### Diagonal Wear

**Appearance**
Manifests in the form of oblique wear patches. Can appear singularly or repeat around the circumference of the tire.

**Probable Cause**
Misalignment, radial and lateral runout, severe out of balance, loose wheel bearings or steering parts.

**Corrective Action**
Check for mismount and worn parts.

**Tire Disposition**
Reverse direction of tire or retread.

### Radial Feather Wear

**Appearance**
Feathering at the edge of the tread ribs.

**Probable Cause**
Usually the result of continued exposure to lateral force, such as excessive toe. Can also form as a result of counter-steering to compensate for drive axle misalignment.

**Corrective Action**
Check alignment.

**Tire Disposition**
Rotate to another position or retread.
**Multiple Flat Spotting Wear**

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Multiple radially worn areas around the tire.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Probable Cause</td>
<td>Faulty shocks, loose/worn wheel bearings, severe balance issues, mismatched pressures or tire diameters, excessive high speed empty operation.</td>
</tr>
<tr>
<td>Corrective Action</td>
<td>Check for mechanical issue, check air pressure.</td>
</tr>
<tr>
<td>Tire Disposition</td>
<td>Continue to run or retread.</td>
</tr>
</tbody>
</table>

**Depression Wear** (Shoulder)

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Localized wear patch on the shoulder rib of the tire. This patch can repeat around the circumference of the tire.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Probable Cause</td>
<td>Faulty shocks, lateral runout, loose wheel bearings, mis-mount, severe balance issue.</td>
</tr>
<tr>
<td>Corrective Action</td>
<td>Check for mechanical problem.</td>
</tr>
<tr>
<td>Tire Disposition</td>
<td>Continue to run, rotate or retread.</td>
</tr>
</tbody>
</table>

**Depression Wear** (Center)

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Circumferential depression wear of the center tread rib.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Probable Cause</td>
<td>Overloaded/underinflated, faulty shocks, loose wheel bearings, mismount, high speed empty haul conditions.</td>
</tr>
<tr>
<td>Corrective Action</td>
<td>Check air pressures/load weight and worn parts.</td>
</tr>
<tr>
<td>Tire Disposition</td>
<td>Continue to run, rotate or retread.</td>
</tr>
</tbody>
</table>

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