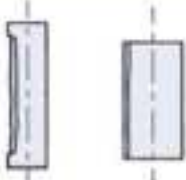




The below chart shows the most common chain failures and causes, but not necessarily the only ones.

Problem	Possible Causes of Problem	Suggested Remedy
 <p>Pin or Bushing Galling</p>	<ul style="list-style-type: none"> <li>• Overload</li> <li>• Inadequate lubrication</li> </ul>	<ul style="list-style-type: none"> <li>• Proper lubrication</li> <li>• Replace chain when elongation exceeds functional limits</li> </ul>
 <p>Turned Pins</p>	<ul style="list-style-type: none"> <li>• Overload</li> <li>• Inadequate lubrication</li> </ul>	<ul style="list-style-type: none"> <li>• Replace chain as soon as possible</li> </ul>
Excessive Noise	<ul style="list-style-type: none"> <li>• Too little or too much slack</li> <li>• Chain obstruction</li> <li>• Loose chain guard or bearing</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust centers or take-up</li> <li>• Inspect &amp; remove obstruction</li> <li>• Tighten bolts and check bearings</li> </ul>
Chain Vibration	<ul style="list-style-type: none"> <li>• Excessive chain slack</li> <li>• Center distance too long</li> <li>• stiff links</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust chain tensioner</li> <li>• Install idler</li> <li>• Lubricate or replace chain</li> </ul>
Wear on inside of link plate and one side of sprocket teeth	<ul style="list-style-type: none"> <li>• Misalignment</li> </ul>	<ul style="list-style-type: none"> <li>• Realign sprockets and shafts</li> <li>• Replace chain and sprockets if necessary</li> </ul>
Chain stiffens	<ul style="list-style-type: none"> <li>• Excessive load</li> <li>• Misalignment</li> <li>• Inadequate lubrication</li> <li>• Corrosion</li> </ul>	<ul style="list-style-type: none"> <li>• Replace chain with one of suitable strength</li> <li>• Inspect alignment</li> <li>• Clean and establish correct lubrication</li> <li>• Replace with corrosion resistant chain</li> </ul>
Chain Climbs Sprockets	<ul style="list-style-type: none"> <li>• Excessive chain wear</li> <li>• Excessive chain slack</li> <li>• Inadequate lubrication</li> <li>• Sprocket tooth wear</li> </ul>	<ul style="list-style-type: none"> <li>• Replace chain</li> <li>• Install tensioner if necessary</li> <li>• Replace sprocket</li> </ul>
 <p>Fractured Plate</p>	<ul style="list-style-type: none"> <li>• Extreme overload</li> </ul>	<ul style="list-style-type: none"> <li>• Inspect the drive to determine the cause of high load</li> <li>• Redesign drive using a higher capacity chain</li> </ul>