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XCEL Series of Turbine Mixers

Bulletin 06-100
 11/21/11
 Supersedes 01/04/05

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Troubleshooting Guide for All Mixers

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTIONS
Noises and Vibration	<p>Mounted on poor foundation</p> <p>Misaligned couplings</p> <p>Loose or broken parts</p> <p>Excessively worn gears</p> <p>Worn or faulty bearings</p> <p>Low liquid level or excessive forces in tank</p> <p>Excessive backlash or shaft end play</p>	<p>Improve installation rigidity. Tighten foot bolts.</p> <p>Recheck alignment.</p> <p>Check for breaks or cracks. Tighten all bolts.</p> <p>Check Shimming for Proper contact. Check Possible Machine Overload. Keep oil clean. Replace gears if necessary.</p> <p>Check alignment, adjustment and possible overload. Clean and flush reducer, replace worn bearings and add new lubricant as required.</p> <p>Turn Mixer off and return tank level to 2' above lower impeller before resuming operation.</p> <p>Check for worn bearings, gears and proper shimming.</p>
Overheating	<p>Lack or, or improper lubricant</p> <p>Excessive churning of oil in operation</p> <p>Obstructed air flow</p> <p>Unit operating over thermal rating</p>	<p>Keep oil at proper level and use recommended types. Change oil Periodically.</p> <p>Drain excessive oil to proper level.</p> <p>Check air supply for proper motor fan circulation. Avoid high surrounding ambient temperatures.</p> <p>Check rating with actual load.</p>
Oil Leakage	<p>Loose Covers or end plates</p> <p>Worn or damaged oil seals</p> <p>Too much oil</p> <p>Improper venting</p> <p>Foaming oil</p>	<p>Check for torn gaskets. Tighten all bolts</p> <p>Replace with new seals. Avoid inserting seal over sharp edges.</p> <p>Check oil level. Drain to proper capacity.</p> <p>Replace clogged breathers.</p> <p>Replace oil with proper type (non-foaming).</p>
Excessive Shaft Runout	<p>Loose bolts on coupling</p> <p>Misaligned coupling</p> <p>Bent shaft</p> <p>Low liquid level or excessive forces in tank</p> <p>Worn or failed gearbox bearings</p> <p>Loose, bent, or missing impeller blade</p>	<p>Tighten all bolts.</p> <p>Loosen all bolts, align, tighten all bolts.</p> <p>Straighten or replace shaft.</p> <p>Turn mixer off and return tank level 2' above lower impeller before resuming operation.</p> <p>Replace bearings.</p> <p>If loose, replace and tighten all bolts. If blade is bent or missing, replace blade with proper size and type.</p>
Mixer impeller operating in wrong direction	<p>Motor is wired incorrectly</p>	<p>Switch any two leads in motor junction box (3 phase motors only!).</p>

NOTE: IF PROBLEMS PERSIST, NOTIFY YOUR LOCAL REPRESENTATIVE OR THE FACTORY IMMEDIATELY FOR ASSISTANCE.