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AGC-1712 Gearbox Inspection Procedure

1. Does the gear drive turn freely? If not, go to step 5.
2. Is the output shaft loose? If yes, is it so loose that the fan could hit the fan shroud? If yes, the vertical shaft bearings failed.
3. Has the gear box shifted its support? If so, severe misalignment could cause the drive shaft to break and destroy the fan.
4. If no problems are found in 1-3, then it is unlikely the gear caused the failure.
5. Check the oil level in the gear box. If the oil level is low, the gear probably seized due to low level. Proceed to steps 6 and 7 to determine why oil level is low.
6. Check for oil leaks in the external plumbing.
7. Check for a plugged vent line and oil spilled below the external sight glass.
8. If there are no obvious leaks, inspect the gears through the inspection opening. Look for signs of overheating such as discolored metal.
9. Look at the color of the oil. If it is very dark and thick, the bearings may have seized due to poor oil quality.

If any of above step shows not normal customer should provide us with details of the inspection result and we will further analyze with troubleshooting.