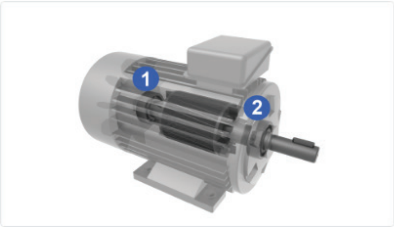
SKF Pulse Check



Requested by:	Montgomery Scott
Completion Date:	1/24/2020
Asset Name:	Motor: Extruder 7
Asset Tag:	1324-0724
Asset Type:	Motor-Electric
Manufacturer:	Toshiba
Pulse Check ID:	xxxx

Status

Bearings	Immediate action recommended
Balance	No action required
Alignment	No action required
Looseness	Action at next maintenance opportunity
Lubrication	Action at next maintenance opportunity
Electrical	No action required
Cavitation	Immediate action recommended

Summary

The data shows potential bearing, looseness and lubrication issues. There appears to be outer race defect on the drive end bearing. Temperature is high on most data points. The gE readings indicate that there could be wear on both bearings. Check for contamination or insufficient lubrication causing high gEs. Lubricate the bearings.

Data points 2H and 2A in velocity have erroneous data. Be sure to let the sensor to settle 5 seconds before collecting your measurements.

There is 8x or 9x running speed, which could be coming from the asset the motor is connected to. Check that asset for wear or build up.

See recommended corrective actions below.

For further support, please contact SKF.Connected@skf.com.

Recommended Corrective Actions

Bearing

1. For yellow alarm, lubricate bearing and monitor closely.
2. For red alarm, replace bearing.
3. Contact your SKF Territory Manager for bearing damage/failure analysis.

Looseness

1. Check all fasteners/hold-down hardware.
2. Inspect base/asset for structural integrity (cracks, damage, corrosion).
3. Measure bearing housing / shaft fit.
4. Where applicable, inspect coupling or belt for excessive wear.

Lubrication

1. Visually inspect lubricant for contamination.
2. Check lubrication system function, if applicable.
3. Lubricate using the recommended method based on bearing specifications.
4. Cavitation Flow Check that suction pressure is within specification.
5. Check fluid flow path for restrictions.
6. Inspect impeller and casing for damage and confirm correct assembly.