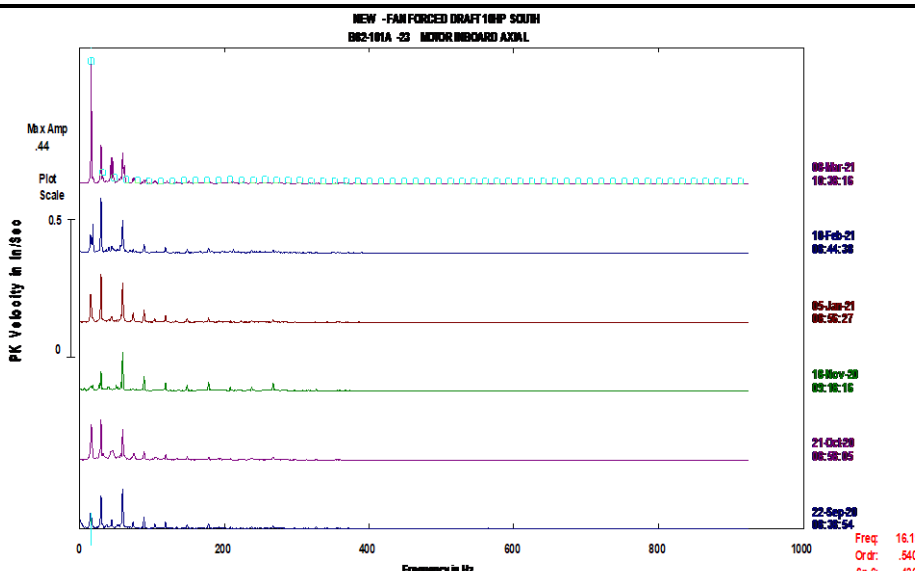
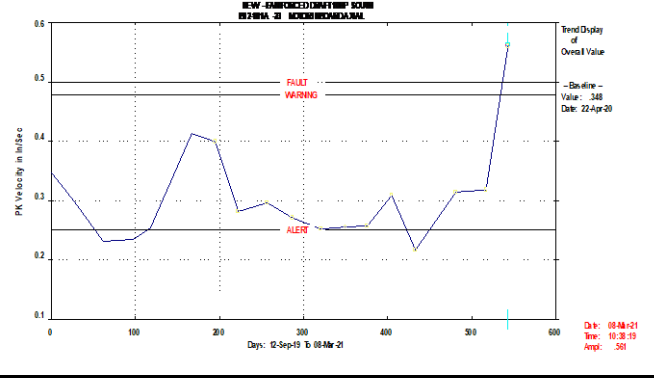




Client	PENNAKEM	Survey Date	3-8-2021
Location	Memphis, TN	Report Date	3-12-2021
Machine	B82-101A 10HP FD FAN SOUTH (WEST)	QMS No.	144781
Component	Unit	Analyst	DWS

Defect Rating for this machine	CLASS II
Defect Rating System	
Class I: Defect is present, but effect on reliability is not clear; no immediate action is required. Continue normal monitoring.	Class III: Defect (s) present that may cause failure in short term (less than 2 mos.). Should be addressed as soon as practical, with a high maintenance priority. Increase monitoring frequency.
Class II: Defect (s) present that may cause problem in long term (2-6 mos.). Repair during normal maintenance scheduling. Continue to monitor.	Class IV: Defect (s) present that makes continued reliability unpredictable, and possibility of secondary damage is high. Repairs should be made ASAP. An unscheduled shutdown should be considered for repairs.

Vibration Data	Analysis
<p>NEW -FAN FORCED DRAFT 10HP SOUTH B82-101A -S3 MOTOR IMBOARD AXIAL</p>  <p>Max Amp .44 Plot Scale 0.5</p> <p>PK Velocity in in/sec</p> <p>Frequency in Hz</p> <p>09-Mar-21 18:38:16 18-Feb-21 08:44:38 05-Jan-21 08:58:27 18-Nov-20 03:18:16 21-Oct-20 08:58:05 22-Sep-20 08:38:54</p> <p>Freq: 16.19 Ordr: .540 Sp 6: .436</p>	<p>Large sub-synchronous vibration peak in motor axial.</p>

Discussion / Repair recommendations	Trend Data
<p>Motor axial has seen a large increase in a sub-synchronous non-fractional harmonic vibration which is either a resonant vibration or possibly a cracked shaft or loose fan hub, or another anomaly. Rated a Class II Defect.</p>	 <p>NEW -FAN FORCED DRAFT 10HP SOUTH B82-101A -S3 MOTOR IMBOARD AXIAL</p> <p>PK Velocity in in/sec</p> <p>Days: 02-Sep-19 To 08-Mar-21</p> <p>Trend Display of Overall Value Baseline Value: .348 Date: 22-Apr-20</p> <p>08-Mar-21 10:38:19 Ampl: .501</p>