VIBRATION ANALYSIS OF IGNITOR COOLING FAN 2A AT PT PJB UP GRESIK

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Abstract

In the traditional maintenance to know the damage that occurs on a machine is done by dismantling the machine, examine it and reassemble. Where in this way cause long down time, often just to check that the machine is still in good condition and can also be detrimental to productivity and conditions of the machine itself. Modern technology makes it possible to determine the condition of the engine from outside without having to disassemble the machine itself. The most effective of the various ways is vibration analysis. With observation vibration levels on a regular basis then something is not normal can be detected before damage occurs more fatal.

By using the tool vibration Computational Systems Incorporated (CSI) 2120A. Where these tools have the ability to convert from time domain into the frequency domain that would be useful to identify the source of damage. Vibration measurement is done on the engine Ignitor Cooling Fan. By knowing the level of vibration (the highest in the MIA 50,20 mm/s), then by identifying the characteristics (frequency domain), then the measurement is concluded that the engine is predicted to experience static unbalance.

After process repair done, or the balancing is done by examination of vibration test again. From result of measurement of vibration show natural machine of degradation of vibration level become 0,41 mm/s hence got by machine have no trouble or problem.

Keyword : vibration, CSI 2120A, Unbalance, Balancing