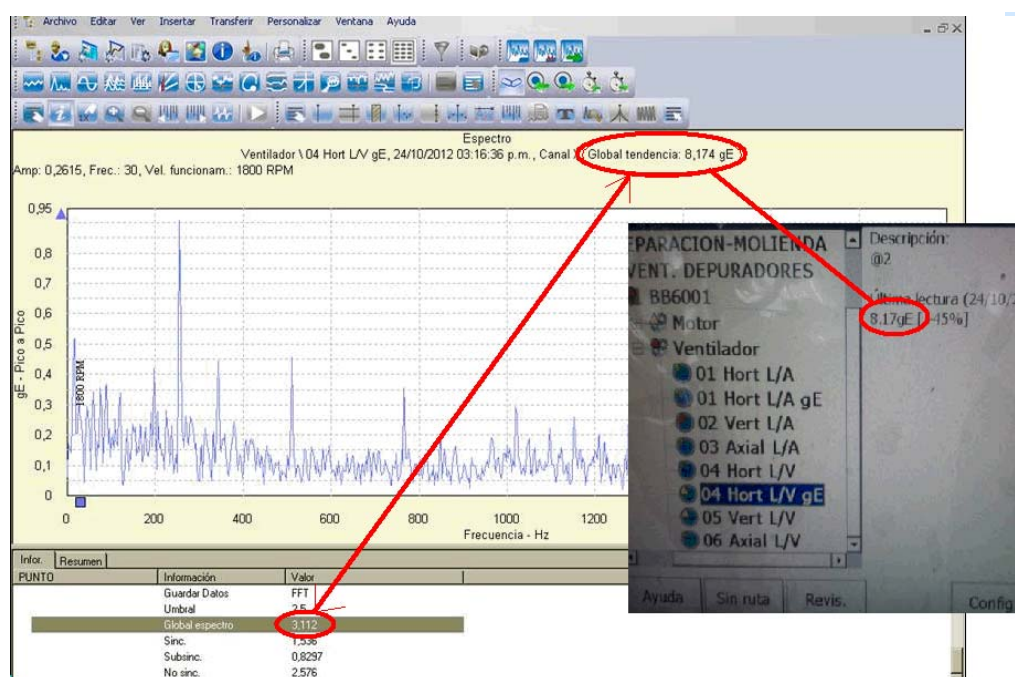`

Knowledge Base Article

Product Group: Microlog Analyzer; Software
Product: Microlog generic; CMSW7400 – @ptitude Analyst
Version: N/A

Abstract

This article explains why the gE Overall Value displayed for the Trend may be different from the Overall Value shown in the Spectrum in SKF @ptitude Analyst. [Figure 1]

Figure 1. Example showing Trend value of 8.17gE
vs. Spectrum value of 3.11gE

SKF Reliability Systems
5271 Viewridge Court * San Diego, California, 92123 USA
Telephone 1-800-523-7514 Web: www.skf.com

3484 Rev A
Page 1 of 2

Overview

The SKF Microlog Analyzer calculates the gE Overall Value from the Time Domain, where it captures the highest positive peak and lowest negative peak and uses these values (the difference) to acquire the Peak to Peak gE Overall value. This method provides a much better indication of the defect severity.

The value shown in the Spectrum window [Figure 2] in SKF @ptitude Analyst is the RMS calculation from the FFT data scaled to a Peak or Peak to Peak value. It is just the energy that @ptitude Analyst calculates from the energy in the Spectrum. This value is not used. It is simply a display value on the Spectrum Plot.
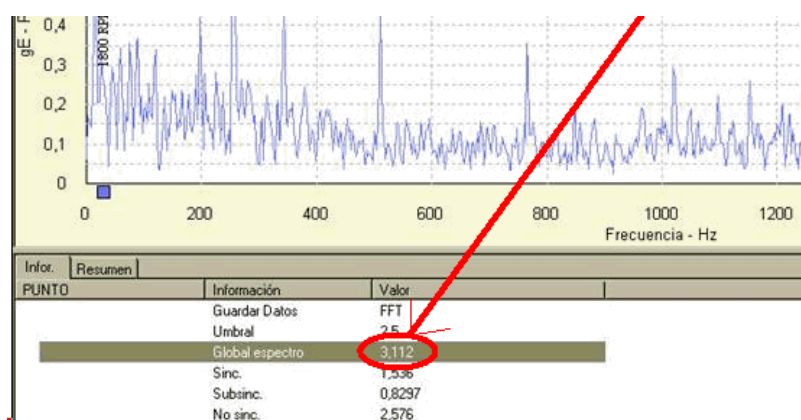
Figure 2. Value in Spectrum Plot

Both the Microlog Analyzer and @ptitude Analyst use the Peak to Peak value from the Time Domain as the Trend Overall value.

For further assistance, please contact the Technical Support Group by phone at 1-800-523-7514 option 8, or by email at TSG-Americas@skf.com.

SKF Reliability Systems
5271 Viewridge Court * San Diego, California, 92123 USA
Telephone 1-800-523-7514 Web: www.skf.com

3484 Rev A
Page 2 of 2