
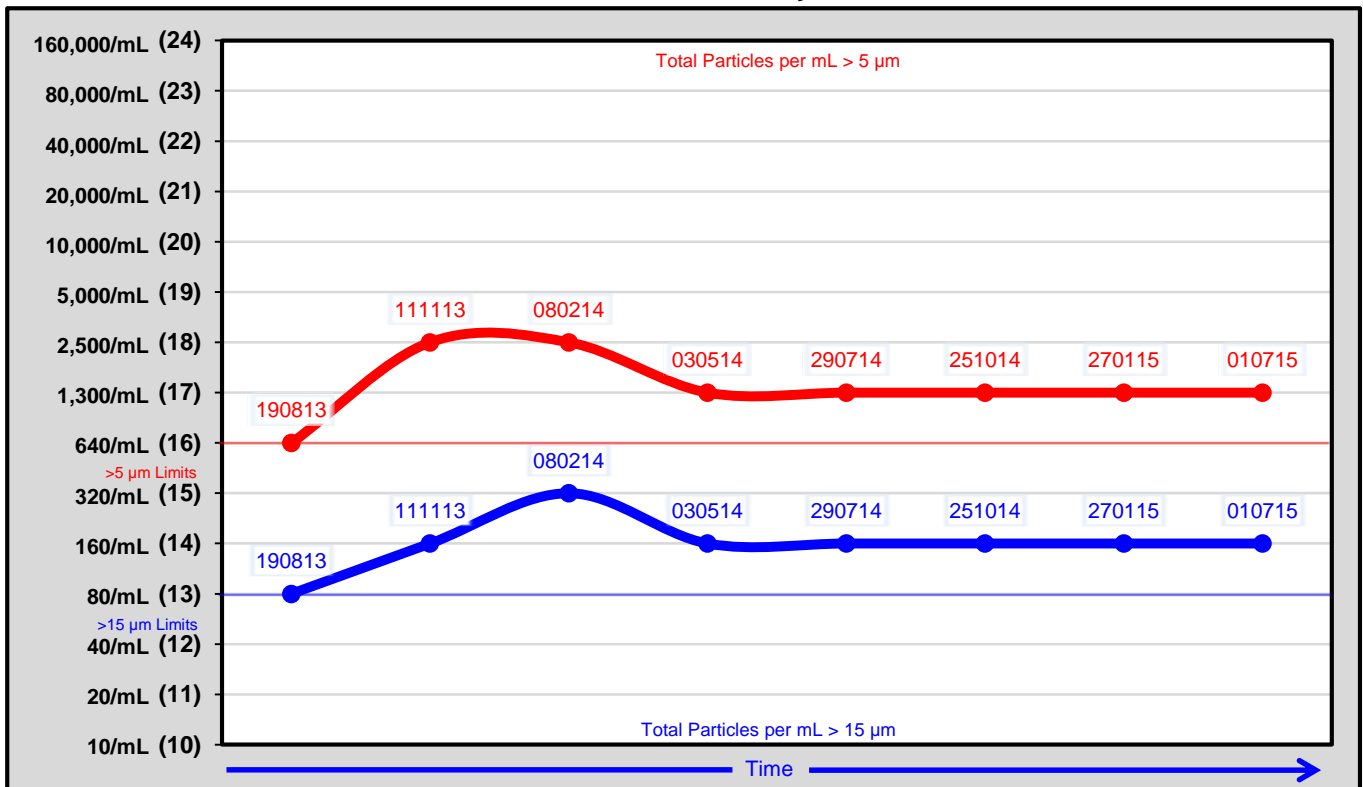


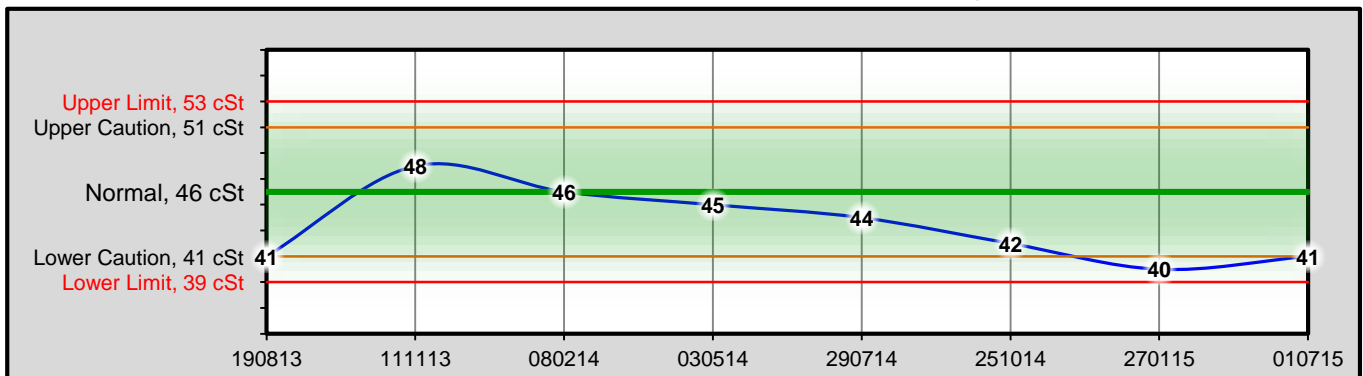


WDA No 002 SC1	 <p style="text-align: center; color: yellow;">Screw Compressor 1</p>
Client Company Company Details Attention of Client Name Contact Details	
Objective. Screw Compressor 1 Oil Sample from 1/07/2015. Complete Laboratory analysis on sample, information found used to establish machine condition and future maintenance requirements.	
Method. Sample approx 100 mL received, Sample preparation in accordance with Procedure No. 22. One sample processed 1 mL in volume, therefore the amount seen in the video pictures is relatable to the debris concentration per mL of oil.	

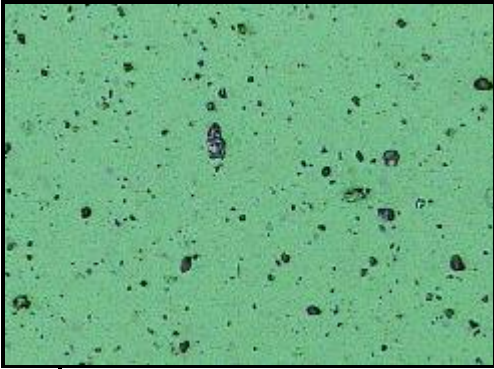
ISO 4407 Cleanness Code for Wear Debris Analysis No 002 SC1 - ISO 17/14



Atlas Copco GR10 SW150 Compressor Fluid Upper & Lower limits, Sample Viscosity cSt @ 40 °C



3 µm Membrane Filter

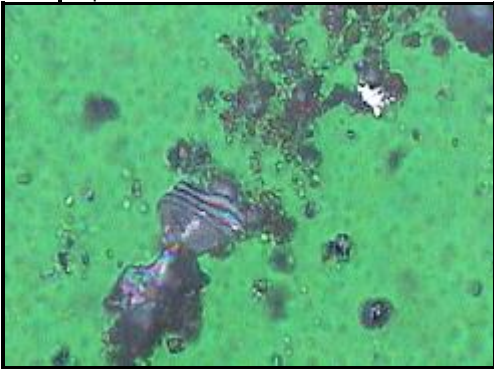


This image at 100X indicates the average wear debris and contamination deposited on the analysis filter from 1 CC of the sample being forced through the 3-µm Membrane Analysis Filter.

The brightness of microscope's bottom Green/Blue light shining up through the sample provides an indication of the level of wear debris and contamination per CC of sample.

100 µm

3 µm Membrane Filter



**Fine Hard Particle Damaged
Metallic Wear Debris
@ 500X Sized 0.5-150 µm**

There was a light amount of this fine hard particle catalysed metallic wear debris present.

20 µm

3 µm Membrane Filter

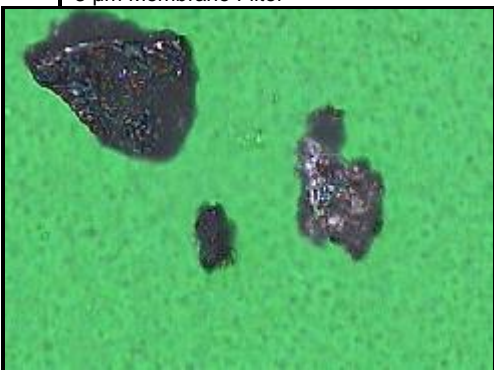


**Fine Hard Particle Damaged
Metallic Wear Debris
@ 500X Sized 0.5-150 µm**

There was a light amount of this fine hard particle catalysed metallic wear debris present.

20 µm

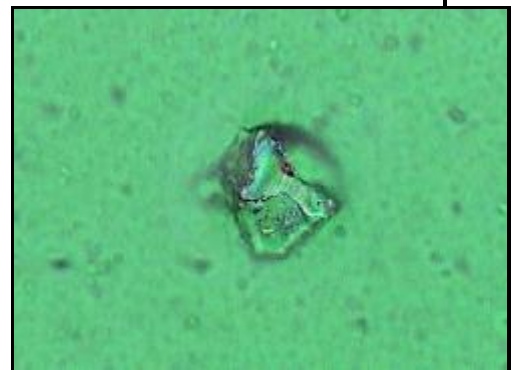
3 µm Membrane Filter



**Fine Hard Particle Damaged
Metallic Wear Debris
@ 500X Sized 0.5-150 µm**

There was a moderate amount of this fine hard particle catalysed metallic wear debris present.

20 µm



010715 Results Conclusions and Recommendations

The SC1 Screw Compressor 1 Oil Sample indicates the compressor has continued being lightly dusted with a light amount of fine silica crystals deposited upon the analysis filter.

Drain and replace the lubricant to remove this current contamination, replace all filters, check air system hoses and clamps for fine dirt entry. Resample in 2-3 months at next service to monitor the compressors trends.

270115 Results Conclusions and Recommendations

The SC1 Screw Compressor 1 Oil Sample indicates the compressor has continued being lightly dusted with a light amount of fine silica crystals deposited upon the analysis filter.

Drain and replace the lubricant to remove this current contamination, replace all filters, check air system hoses and clamps for fine dirt entry. Resample in 2-3 months at next service to monitor the compressors trends.

251014 Results Conclusions and Recommendations

The SC1 Screw Compressor 1 Oil Sample indicates the compressor is being lightly dusted with a light amount of fine silica crystals deposited upon the analysis filter.

Drain and replace the lubricant to remove this current contamination, replace all filters, check air system hoses and clamps for fine dirt entry. Resample in 2-3 months at next service to monitor the compressors trends.

290714 Results Conclusions and Recommendations

The SC1 Screw Compressor 1 Oil Sample indicates the compressor is wearing in a normal wear mode at a light rate of wear with a light amount of fine metallic wear debris deposited upon the analysis filter. Check for fine dirt entry, Resample in 2-3 months at next service to monitor the compressors trends.



Rob Simmonds
Reliability Manager

The analysis provided is indicative of conditions based upon sample information received and quality of sample processed. Recommendations are provided as a guide only. Any decisions relating to repair of components or changes to procedures are entirely at the discretion of the customer.