



WDA No 001 C1

Client Company

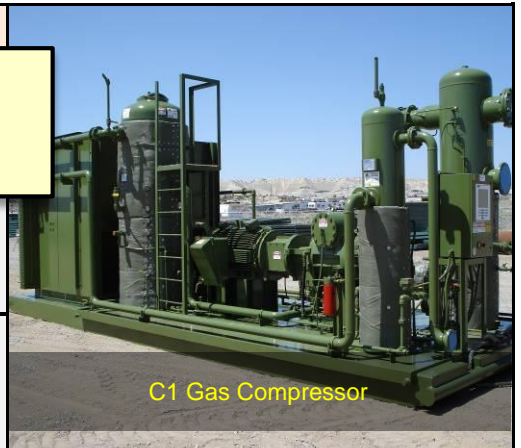
Company Details
 Attention of Client Name
 Contact Details

Report Header:

Included are the client's details, Item Details, and a summary of the reports objective and method.

Objective. C1 Gas Compressor 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.



C1 Gas Compressor

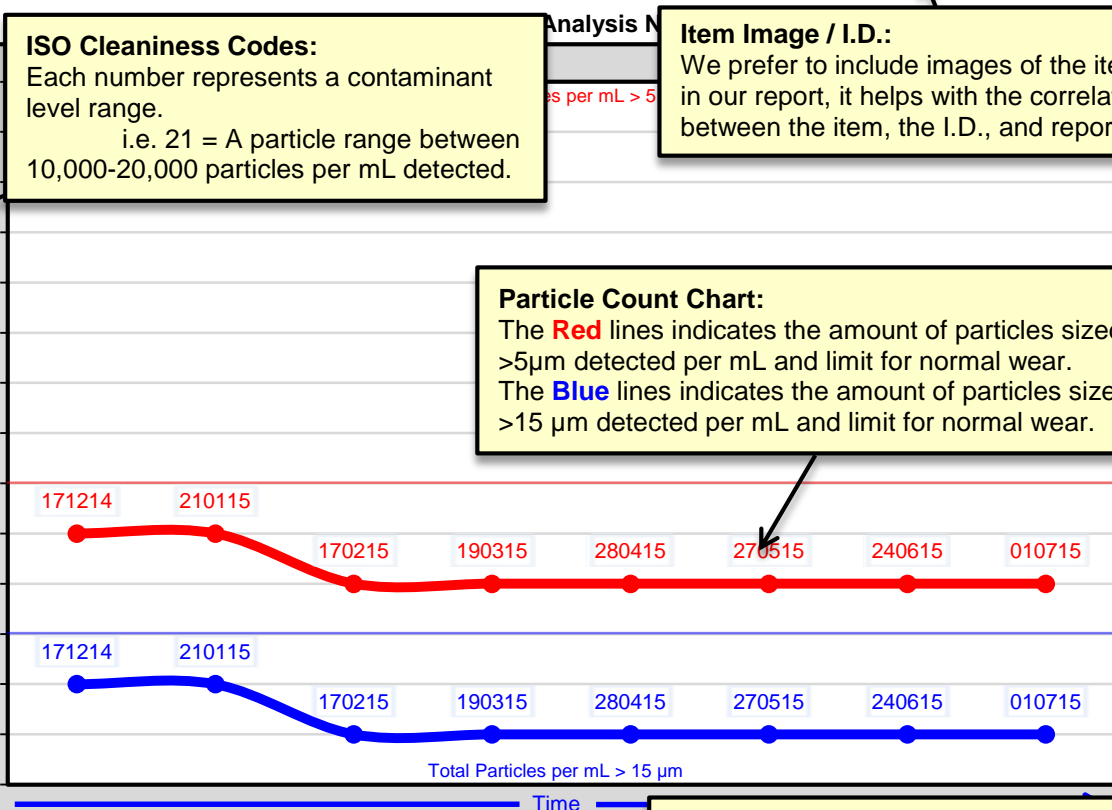
ISO Cleanliness Codes:

Each number represents a contaminant level range.
 i.e. 21 = A particle range between 10,000-20,000 particles per mL detected.

Item Image / I.D.:

We prefer to include images of the item in our report, it helps with the correlation between the item, the I.D., and report

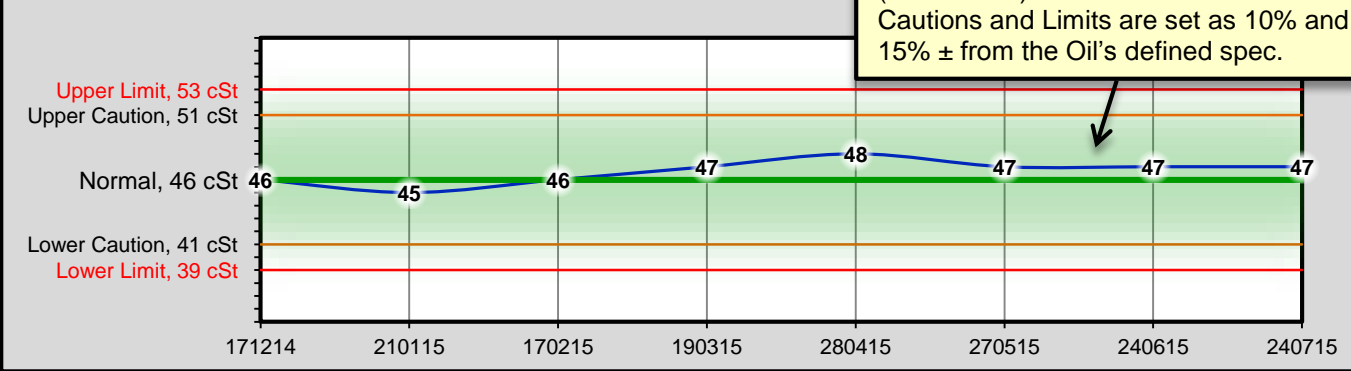
160,000/mL (24)
 80,000/mL (23)
 40,000/mL (22)
 20,000/mL (21)
 10,000/mL (20)
 5,000/mL (19)
 2,500/mL (18)
 1,300/mL (17)
 640/mL (16)
 320/mL (15)
 160/mL (14)
 80/mL (13)
 40/mL (12)
 20/mL (11)
 10/mL (10)



Particle Count Chart:
 The Red lines indicates the amount of particles sized >5µm detected per mL and limit for normal wear.
 The Blue lines indicates the amount of particles sized >15 µm detected per mL and limit for normal wear.

Mobil DTE 846 - Upper & Lower limits, Sample Viscosity cSt @ 40 °C

Viscosity Chart:
 Viscosity is measured in cSt (centistokes) @ 40°C.
 Cautions and Limits are set as 10% and 15% ± from the Oil's defined spec.



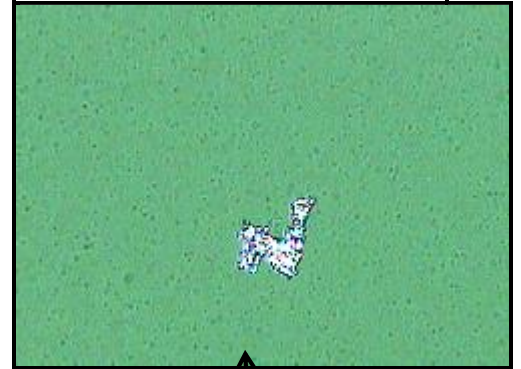
3 µm Membrane Filter



These images at 100X/1000X 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 / 10 µm



240715 Results Conclusions and Recommendations

The C1 Gas Compressor Oil Sample indicates the compressor is running in a normal wear mode at a low rate of wear with few gelled lubricant particles deposited upon the analysis filter.
Resample in 800 hrs to monitor the applications trends.

240615 Results Conclusions and Recommendations

The C1 Gas Compressor Oil Sample indicates the compressor has continued to run in a normal wear mode at a low rate of wear with few gelled lubricant clusters deposited upon the analysis filter.
Resample in 800 hrs to monitor the applications trends.

270515 Results Conclusions and Recommendations

The C1 Gas Compressor Oil Sample indicates the compressor has continued to run in a normal wear mode at a low rate of wear with few gelled lubricant clusters and fine metallic particles deposited upon the analysis filter.
Resample in 800 hrs to monitor the applications trends.

280415 Results Conclusions and Recommendations

The C1 Gas Compressor Oil Sample indicates the compressor is running in a normal wear mode at a low rate of wear with few fine metallic particles and a few to light amount of gelled lubricant clusters deposited upon the analysis filter.
Resample in 800 hrs to monitor the applications trends.

Rob Simmonds
Reliability Manager

Results, Conclusions & Recommendations:
We conclude our reports with a summary of the condition of the machine, potential causes of any wear occurring and recommended steps for keeping the item in optimal conditions

Microscope Images:
High magnification images of debris and contamination caught on our filters from a 1mL average pass of oil help show the rate of wear detected and better portray the condition of the machinery.
A scale relative to the magnification is included. (Human hair is 70-100 µm)

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.