



# Quick Start Guide

## Advanced Graphing

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Learn How To:

1. Create Trend Graphs to Analyze Individual Components
2. Create Compare Graphs to Compare Units by Make/Model
3. Save and Print Graphs to Share

# Graphing Explanation

Widgets are graphical representations of your data that give you a higher level account overview. Below is a list of explanations for each widget:

## Trend Graphing

- Track trends in abnormal test results for individual pieces of equipment using multiple test parameters
- Overlay maintenance events and alarm limits
- Normalize the data

## Compare Graphing

- Overlay test results by make or model to compare equipment performance between individual units or across populations of units

## Static Graphs

- View up to 15 static graphs on your Sample Details page. You can export these graphs into multiple formats and print these graphs

## Widget Graphs

- Customize widgets on the Home tab to display the data that you want to see, in the order that you see fit.

# Trend Graph

HOME SAMPLES EQUIPMENT LABELS REPORTS PREFERENCES ADMIN

Inbox

Search

Details

History



Trend Graph



Send Email



Download PDF

Include in PDF Report:

☐ Graphs

☐ Images

☐ Comments

☐ Actions

Labcheck Support

Condition

## Account Information

Customer ID#: 199306

Company Name: Acme Equipment

Company Worksite: Worksite #1

Company Address: 10770 Vinecrest  
Houston, TX, 77086

## Unit Information

Unit ID: 1300

Unit Mfg: Autocar

Unit Model: ACX64

Unit Serial #: 5VCACLKF4AH210833

Unit Worksite: ROXANNA LANDFILL

## Sample Information

Lab No.: 201606170117

Sample Tracking #: P201510306975

Sample Date: Jun 13, 2016

Received Date: Jun 17, 2016

Completed Date: Jun 17, 2016

## Component Information

Cpnt. Description: ENGINE

Cpnt. Mfg: Cummins

Cpnt. Model: ISM-350V

Cpnt. Serial #: Unknown

Cpnt. Type: ENGINE

## Maintenance Recommendations for Lab No.: 201606170117

Evaluated By: Gibbons, Timothy

Increased nitration can cause the formation of acid in the oil, along with possible increase in viscosity. Check for proper operating conditions. RECOMMENDATIONS: Sample results indicate presence of contamination and/or wear. For a more detailed analysis, please contact your service provider. When C or D codes are present, the following actions are recommended: help confirm results. When C or D codes are present, the following actions are recommended: applicable, perform off-line filtration if available. Closely monitor oil condition.

To run a **Trend Graph**, select on a sample from your Inbox (or from the advanced search screen) to get to the sample details tab. From there click on the **Trend Graph** button.

# Trend Graph



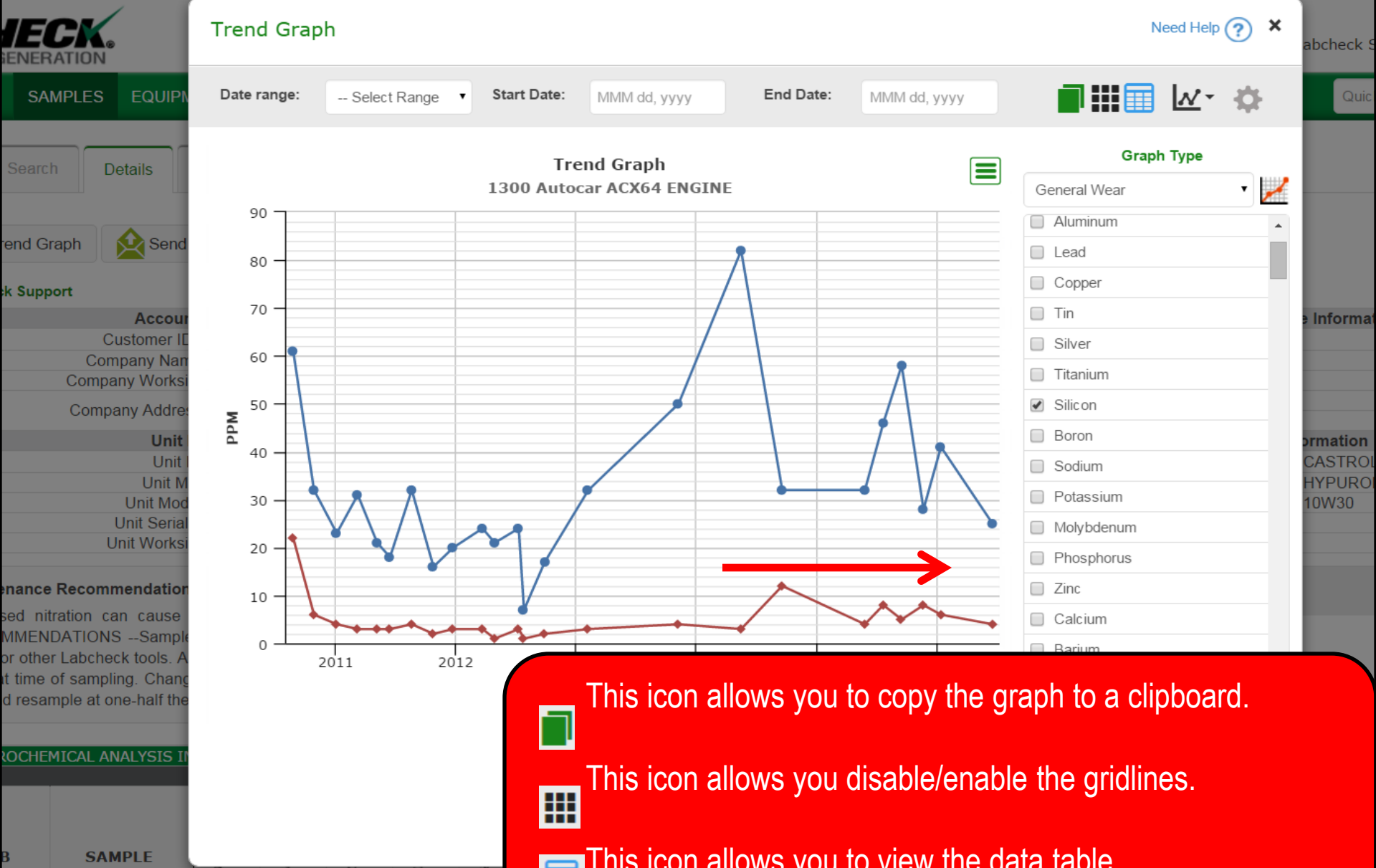
First, select a date range of data you'd like to view; you can also specify a start and end date. Next, select on a preset graph type from the drop down list.

# Trend Graph



You can add individual test values to customize your trend graph by selecting the check box next to each element. To save this as a customized graph click on the **Save As** button.

# Trend Graph



This icon allows you to copy the graph to a clipboard.



This icon allows you to disable/enable the gridlines.

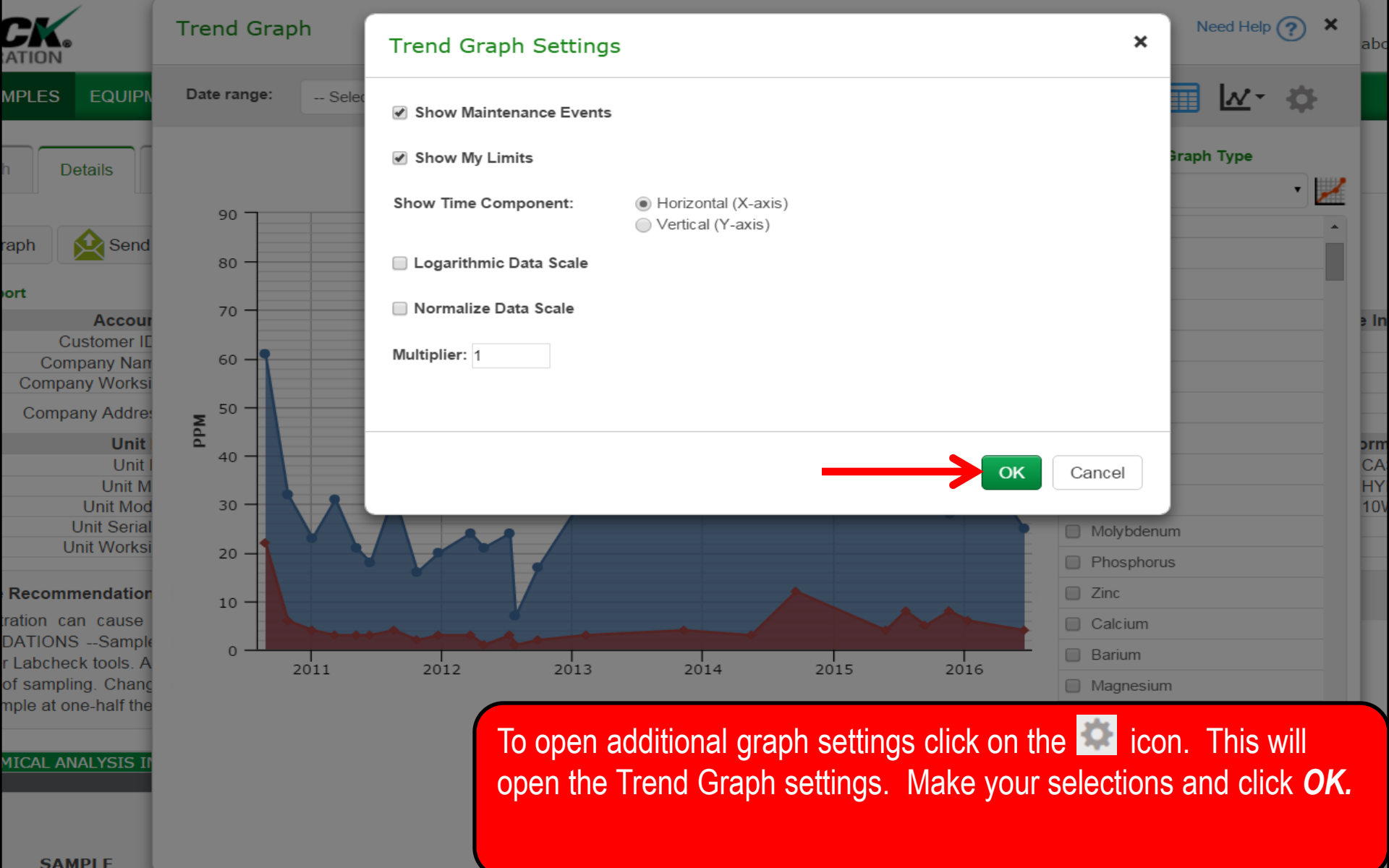


This icon allows you to view the data table.

# Trend Graph

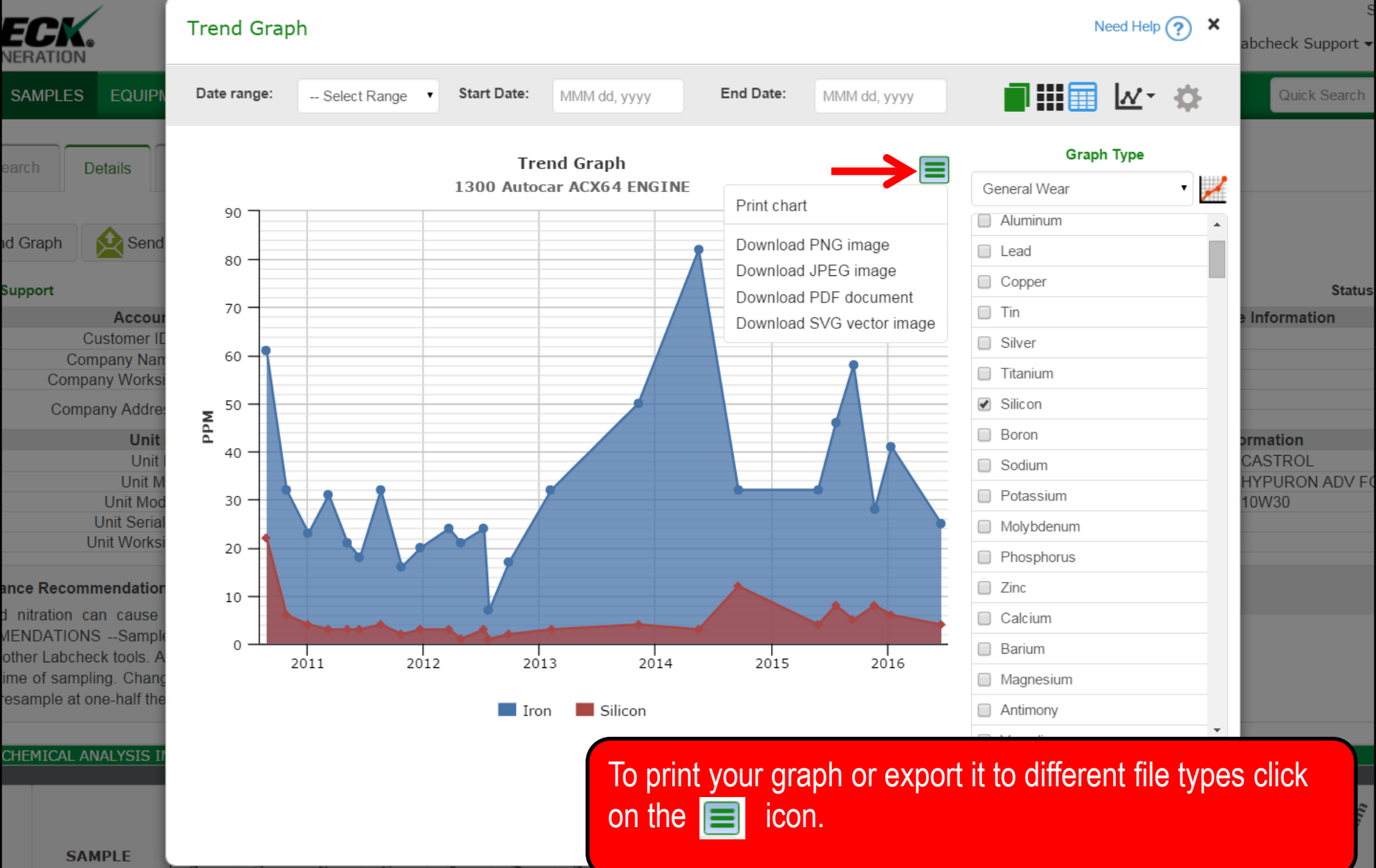


# Trend Graph



To open additional graph settings click on the  icon. This will open the Trend Graph settings. Make your selections and click **OK**.

# Trend Graph
















# Setting Upper & Lower Limits

Manage Filters

My Tests



<input checked="" type="checkbox"/>	Test Code	Test Name	My Limits
<input checked="" type="checkbox"/>	Fe ppm	Iron	
<input checked="" type="checkbox"/>	Cr ppm	Chromium	
<input checked="" type="checkbox"/>	Ni ppm	Nickel	
<input checked="" type="checkbox"/>	Al ppm	Aluminum	
<input checked="" type="checkbox"/>	Pb ppm	Lead	
<input checked="" type="checkbox"/>	Cu ppm	Copper	
<input checked="" type="checkbox"/>	Sn ppm	Tin	
<input checked="" type="checkbox"/>	Ag ppm	Silver	
<input checked="" type="checkbox"/>	Ti ppm	Titanium	
<input checked="" type="checkbox"/>	Si ppm	Silicon	
<input checked="" type="checkbox"/>	B ppm	Boron	
<input checked="" type="checkbox"/>	Na ppm	Sodium	
<input checked="" type="checkbox"/>	K ppm		
<input checked="" type="checkbox"/>	Mo ppm		
<input checked="" type="checkbox"/>	P ppm		
<input checked="" type="checkbox"/>	Zn ppm		

To add Upper and Lower limits to your Trend Graph click on the Preferences tab, then select on My Tests. From here click on the  icon next to a specific test to create your custom limits.

# Setting Upper & Lower Limits

Castrol LABO

Select Language English

06/22/2015

Need Help?

## My Limits

Component: ENGINE Lower: 5 Upper: 12

**Save** **Clear**

Component	Lower	Upper
ENGINE	5	12

**Delete**

**Close**

The **My Limits** window will open up. Here select the component you want the limit to apply to. Next, enter in your lower and upper limits. Once complete click **Save** and then **Close**.

# Compare Graph



Select Language English

Frank Gilboy Last login on 06/22/2015

HOME SAMPLES EQUIPMENT LABELS REPORTS PREFERENCES ADMIN

Quick Search

Need Help?

Browse Tree

Find Units

Quick filter here...

Compare Graph

New Samples

- Acme Lubricants, Top Master
  - Acme Lubricants Inc, Master
    - Abel Construction Company Inc, YO
    - Acme Construction Co. Ind, MOUNTVILL...
      - 12G Caterpillar 12G
      - 135D-2 Deere & Co.
      - 310 #9 Deere & Co. 310SG
      - 310SG-7 Deere & Co. 310SG
      - 521 Caterpillar 980G
        - BACK DIFFERENTIAL
        - ☒ ENGINE
        - FRONT DIFFERENTIAL
        - HYDRAULIC
        - LEFT FRONT FINAL DRIVE
        - LEFT REAR FINAL DRIVE
        - RIGHT FRONT FINAL DRIVE
        - RIGHT REAR FINAL DRIVE
        - TRANS-AUTO
      - 750J Deere & Co. 750J

Customer Details

Unit List

Summary

Acme Construction Co. Ind, MOUNTVILL...

Add Unit

Modify Unit

Copy Unit

Delete Unit

Download XLS

<input type="checkbox"/>	Unit ID	Equipment Type	Manufacturer	Model
<input type="checkbox"/>	12G	Graders	Caterpillar	12G
<input type="checkbox"/>	135D-2		Deere	
<input type="checkbox"/>	310 #9		Deere	310SG
<input type="checkbox"/>	310SG-7		Deere	310SG
<input type="checkbox"/>	521	Wheeled Loader	Caterpillar	980G
<input type="checkbox"/>	750J		Deere	750J

To create a **Compare Graph** click on the Equipment Tab. From here open the hierarchy on the left and select the check box next to the units and components you want to compare. Then select on the **Compare Graph** button.

# Compare Graph

## Compare Graph

Need Help ? X

Date range: All Data

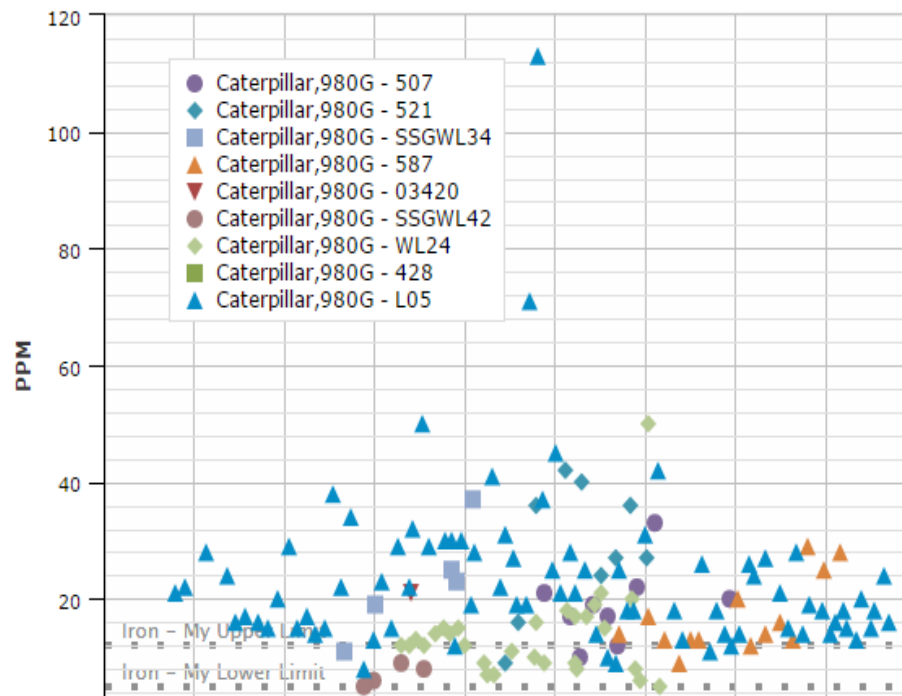
Start Date: MMM dd, yyyy

End Date: MMM dd, yyyy



### Compare Make Models

Test: , Test Units: Hours, Component:



### Parameters

Tests: Iron

Units: Hours

Component: ENGINE

### Make / Models

- ☒ 03420
- ☐ 104
- ☒ 428
- ☐ 429
- ☐ 505
- ☒ 507
- ☐ 511
- ☐ 513
- ☒ 521
- ☐ 557
- ☒ 587
- ☐ 623

Add

Remove

First select on a **date range** or specify a start and end date. Next, select your **Parameters** from the drop down lists, and then select the **checkboxes** next to the units you'd like to compare. You can add another make and model by clicking the **Add** button.

# Compare Graph

## Compare Graph

Need Help ? X

Date range: All Data

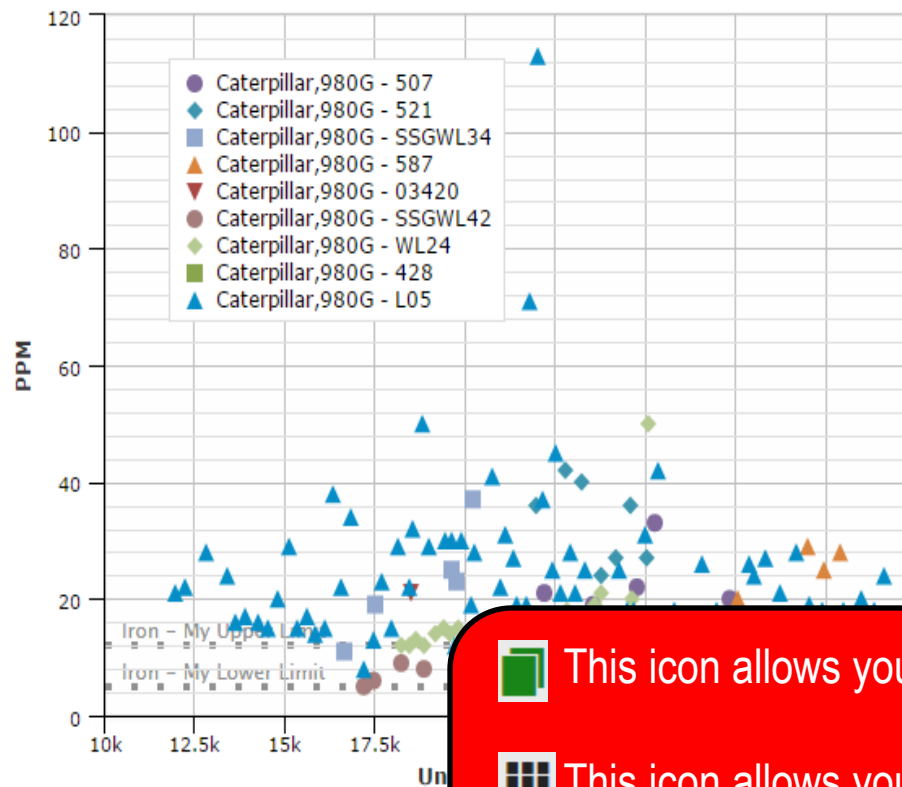
Start Date: MMM dd, yyyy

End Date: MMM dd, yyyy



### Compare Make Models

Test: , Test Units: Hours, Component:



### Parameters

Tests: Iron

Units: Hours

Component: ENGINE

### Make / Models

- ☒ 03420
- ☐ 104
- ☒ 428
- ☐ 429
- ☐ 505
- ☒ 507
- ☐ 511
- ☐ 513
- ☒ 521



This icon allows you to copy the graph to a clipboard.



This icon allows you to disable/enable the gridlines.



This icon allows you to view the data table.

# Compare Graph

## Compare Graph

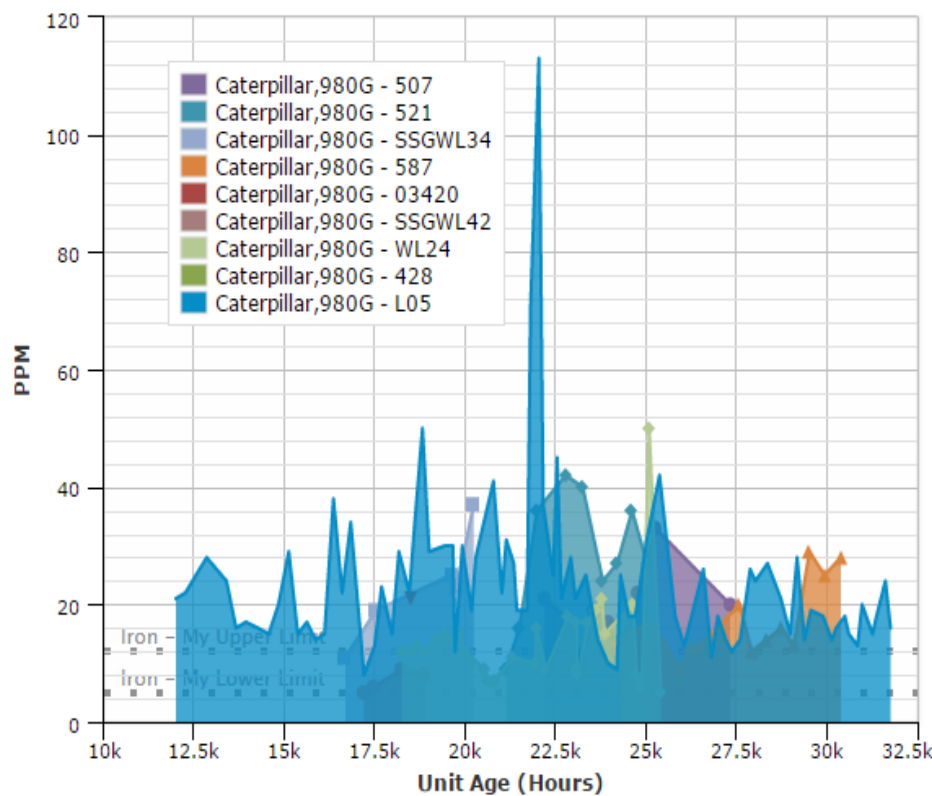
Date range: All Data

Start Date: MMM dd, yyyy

End Date: MMM dd, yyyy

Need Help ?

Compare Make Models  
Test: , Test Units: Hours, Component:



Tests: Iron

Units: Hours

Component: ENGINE

Make / Models

- ☒ 03420
- ☐ 104
- ☒ 428
- ☐ 429
- ☐ 505
- ☒ 507
- ☐ 511
- ☐ 513
- ☒ 521
- ☐ 557
- ☒ 587
- ☐ 623

Add

Remove

- Line
- Area**
- Curve
- Column
- Bar
- Scatter

Click on the  icon to change the style of your graph.

# Compare Graph

Castrol  
**LABCH**  
NEXTGE

Compare Graph

Date range: All Data

Browse Tree

Quick file

W Co

A

►

120

100

80

60

40

20

0

ppm

10k 12.5k 15k 17.5k 20k 22k

Unit Age (H

Iron - My Upper Limit

Iron - My Lower Limit

507

511

513

521

Select Language English

Need Help ?

login on 06/22/2015

Need Help ?

W

Settings

Compare Graph Settings

☒ Show Maintenance Events

☒ Show My Limits

Show Time Component: ☒ Horizontal (X-axis) ☐ Vertical (Y-axis)

☐ Logarithmic Data Scale

☐ Normalize Data Scale

Multiplier: 1

OK Cancel

To open additional graph settings click on the icon. This will open the Compare Graph settings. Make your selections and click **OK**.

# Compare Graph

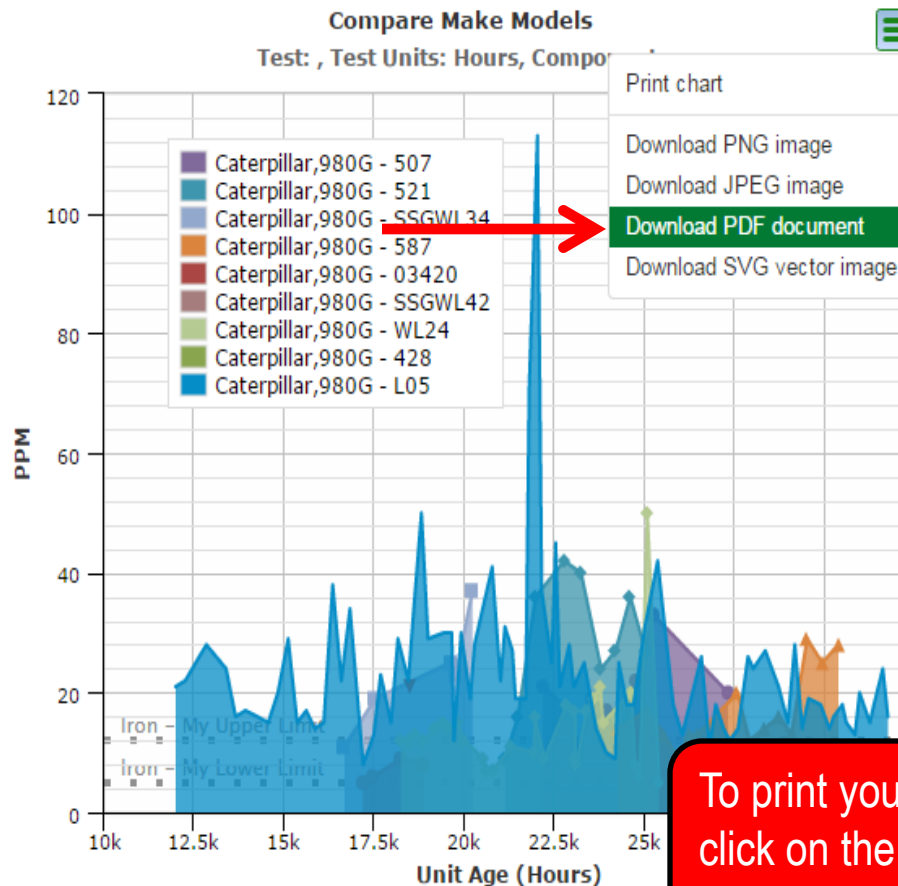
## Compare Graph

Date range: All Data

Start Date: MMM dd, yyyy

End Date: MMM dd, yyyy

Need Help ? X



### Parameters

Tests: Iron

Units: Hours

Component: ENGINE

### Make / Models

- ☒ 03420
- ☐ 104
- ☒ 428
- ☐ 429
- ☐ 505
- ☒ 507
- ☐ 511
- ☐ 513
- ☒ 521
- ☐ 557

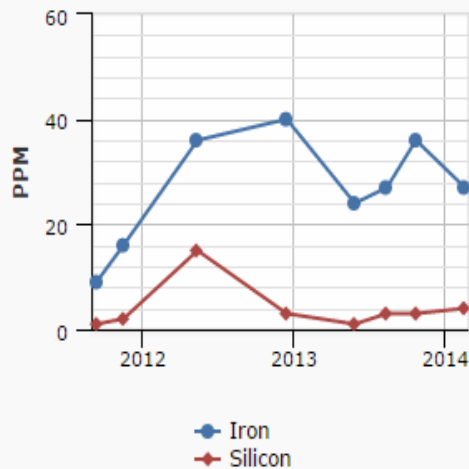
To print your graph or export it to different file types click on the  icon.

# Static Graphs

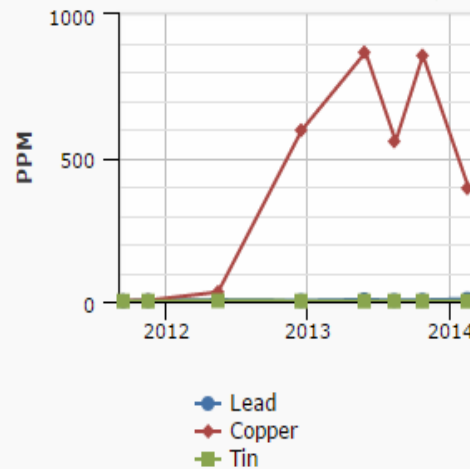
+ Graphs

⚙️ Graph Settings

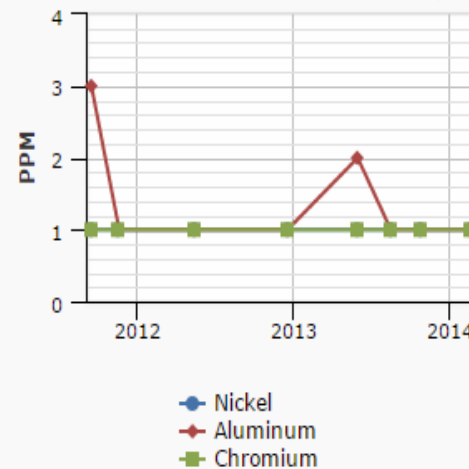
General Wear



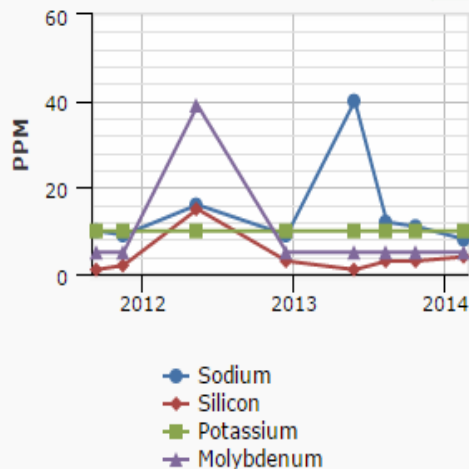
Bearing Wear



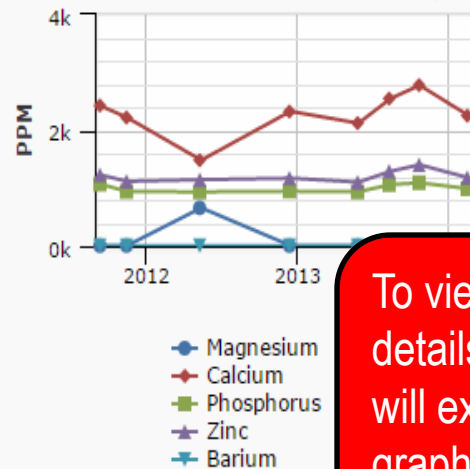
Other Wear



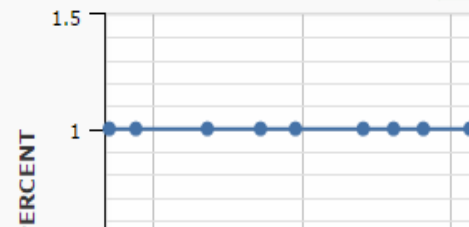
Contaminants



Additives



Fuel Dilution



To view **Static Graphs** scroll down on the sample details screen and click on the + **Graphs** link. This will expand the static graphs. To choose which graphs you'd like to display or hide click on the **Graph Settings** link.

# Static Graphs

+ Graphs

Graph Settings

## Graph Settings



- |   |   |
|---|---|
| <input checked="" type="checkbox"/> General Wear                          | <input checked="" type="checkbox"/> Bearing Wear                        |
| <input checked="" type="checkbox"/> Other Wear                            | <input checked="" type="checkbox"/> Contaminants                        |
| <input checked="" type="checkbox"/> Additives                             | <input checked="" type="checkbox"/> Fuel Dilution                       |
| <input checked="" type="checkbox"/> Soot by FTIR                          | <input checked="" type="checkbox"/> Soot by LEM                         |
| <input checked="" type="checkbox"/> Viscosity (V40)                       | <input checked="" type="checkbox"/> Viscosity (V100)                    |
| <input checked="" type="checkbox"/> Neutralization Number (Acid Number)   | <input checked="" type="checkbox"/> Neutralization Number (Base Number) |
| <input checked="" type="checkbox"/> Water (Crackle)                       | <input checked="" type="checkbox"/> Water (KF)                          |
| <input checked="" type="checkbox"/> Particle Count (ISO Cleanliness Code) |   |

Save

Close

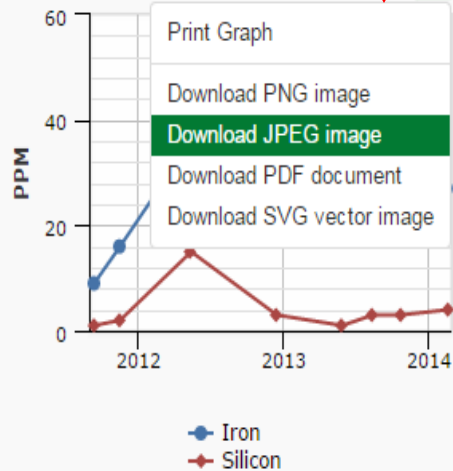
A new window will open up. Select the check boxes next to the graphs you'd like to view and click **Save**.

# Static Graphs

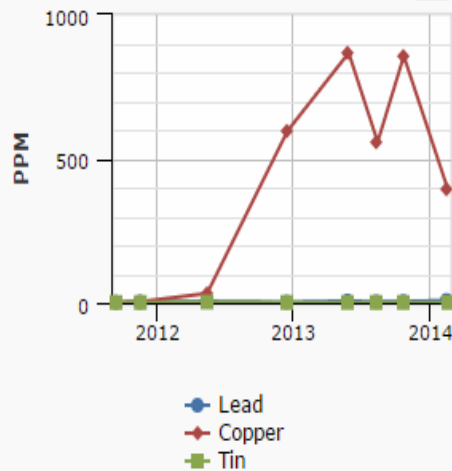
+ Graphs

⚙️ Graph Settings

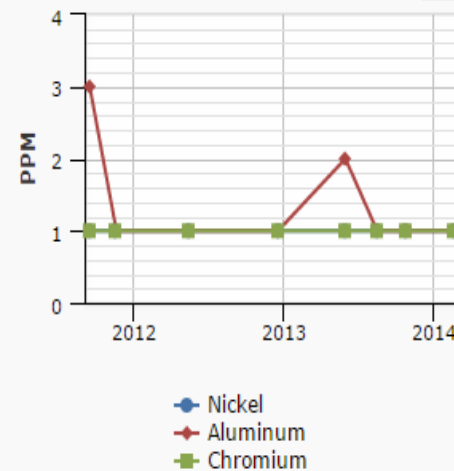
General Wear



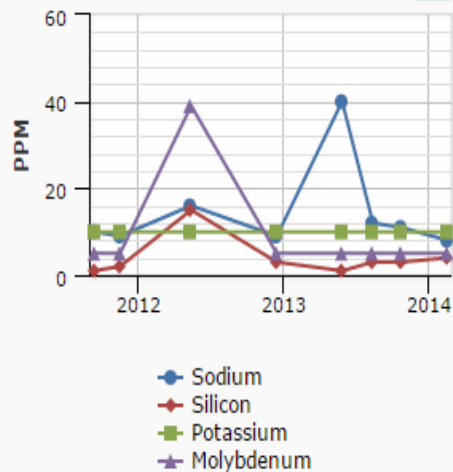
Bearing Wear



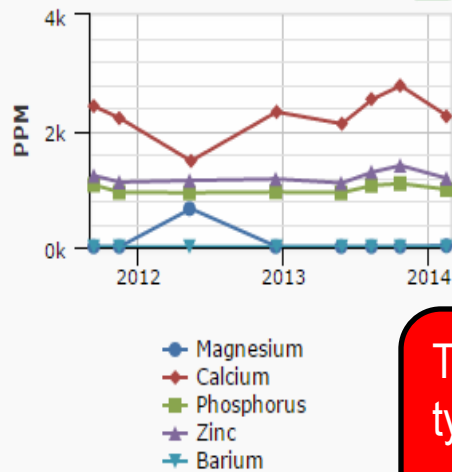
Other Wear



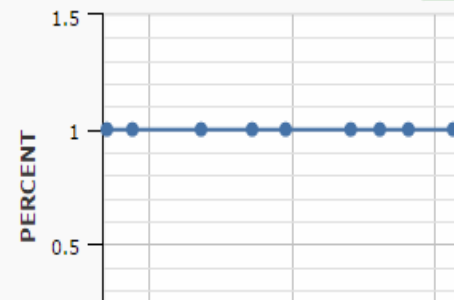
Contaminants



Additives



Fuel Dilution



To print your graph or export it to different file types click on the  icon.

# Widget Graphs



Select Language English

Frank Gilboy Last login on 06/22/2015

HOME SAMPLES EQUIPMENT LABELS REPORTS PREFERENCES ADMIN

Quick Search

Need Help?

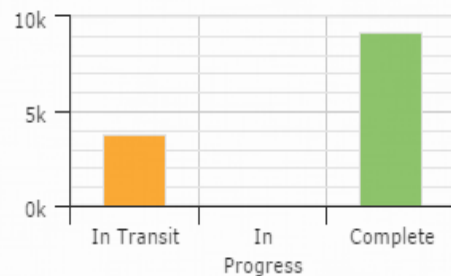
## Messages

### Welcome Castrol Users to Labcheck 2.0!

Visit the [Labcheck Resource Page](#) to view training guides and videos on using Labcheck.

## Samples Status

### All Samples



## News

### Unit Moved

22-Jun-2015



**Frank Gilboy** moved unit 521 Caterpillar 980G from site MASON DIXON [York Building Products - Mason Dixon] to site MOUNTVILLE, PA [Acme Construction Co. Ind]

### Sample Submitted

22-Apr-2015



**Alex Arhire** sampled unit P-40 Kawasaki KSS-95ZII RIGHT FRONT PLANETARY at site ROSSITER PA [Acme Lubricants Site 3]

### Sample Submitted

22-Apr-2015



**Terry Jones** sampled unit LV-2 International 4300 ENGINE at site YORK PA [Abel Construction Company Inc]

### Sample Submitted

22-Apr-2015



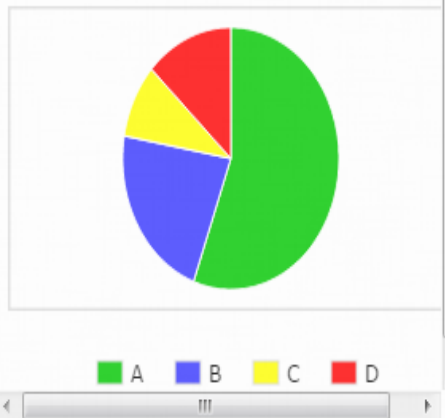
**Terry Jones** sampled unit SV-1 International 4900 ENGINE at site YORK PA

## Track Samples

Track Sample

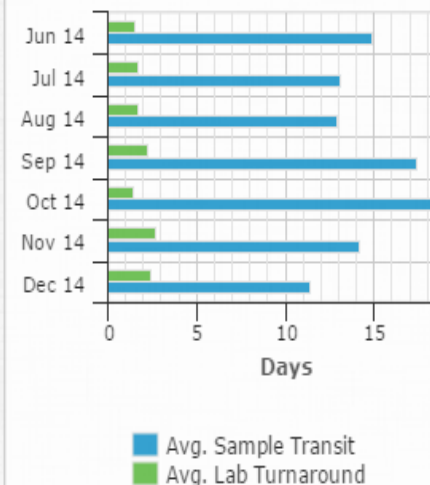
## Recent Samples By Severity

### All Samples



## Sample Turnaround

### Sample Turnaround



You can also view additional graphs on your home tab. To view more information on these graphical widgets please view the **Widgets** quick start guide.



**LABCHECK SUPPORT DESK:**

Phone: **1.866.522.2432**

Email: **[LabcheckSupport@AnalystsInc.com](mailto:LabcheckSupport@AnalystsInc.com)**

**[www.LabcheckResources.com](http://www.LabcheckResources.com)**