

Mobil Serv

Lubricant Analysis

Alert

Unit ID: GA005

Asset ID: 40481412

Description: boiler feed water pump (A)

Account Information

ID: 318801
 Name: Gainesville Renewable Energy Center / POWER HOUSE
 Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US
 Parent Account: Gainesville Renewable Energy Center

Sample Information

Sample ID: 17101118006
 Service Level: Essential
 Bottle ID: a006120935
 Tested Lubricant: MOBIL DTE 732

Equipment Information

Asset Class: Circulating System
 Manufacturer: BOILER FEED PUMP
 Model: CIRC RACK
 Lubricant: MOBIL DTE 732

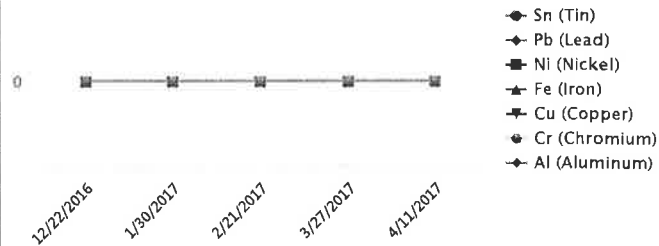
Sample Data & Trends

Report Status	Normal	Normal	Normal	Normal	Alert
Sample ID	16357265037	17030209013	17052285009	17086139074	17101118006
Service Level	Essential	Essential	Essential	Essential	Essential
Bottle ID	a004015960	a005246289	a005288017	a005416514	a006120935
Tested Lubricant	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732
Sampled	22 Dec 2016	30 Jan 2017	21 Feb 2017	27 Mar 2017	11 Apr 2017
Reported	23 Dec 2016	31 Jan 2017	22 Feb 2017	28 Mar 2017	13 Apr 2017
Equipment Age					
Equipment UOM					
Oil Age					
Oil UOM					
Make-up Volume					
Volume UOM					
Oil Changed					
Filter Changed					
Contamination Rating	Normal	Normal	Normal	Normal	Alert
Equipment Rating	Normal	Normal	Normal	Normal	Normal
Oil Rating	Normal	Normal	Normal	Normal	Normal
Visc@40C (cSt)	33.5	33.5	33.4	33.6	33.6
Oxidation (Ab/cm)	0	1	0	0	0
Water (Hot Plate)	NotDetected	NotDetected	NotDetected	NotDetected	Detected
Al (Aluminum)	0	0	0	0	0
Cr (Chromium)	0	0	0	0	0
Cu (Copper)	0	0	0	0	0
Fe (Iron)	0	0	0	0	0
Mo (Molybdenum)	0	0	0	0	0
Ni (Nickel)	0	0	0	0	0
Pb (Lead)	0	0	0	0	0
Sn (Tin)	0	0	0	0	0
B (Boron)	0	0	0	0	0
K (Potassium)	1	0	0	0	0
Na (Sodium)	0	0	0	0	1
Si (Silicon)	3	0	1	0	0
Ba (Barium)	0	0	0	0	1
Ca (Calcium)	0	0	0	0	0
Mg (Magnesium)	0	0	0	0	0
P (Phosphorus)	1	0	0	0	0
Zn (Zinc)	2	1	2	1	0

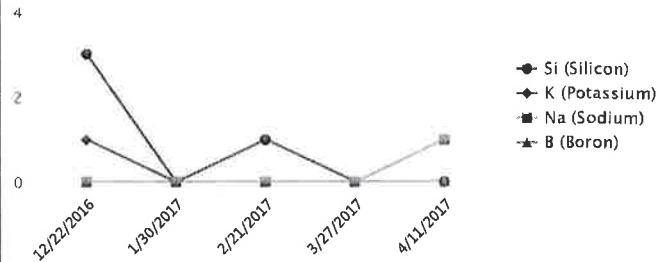
Viscosity



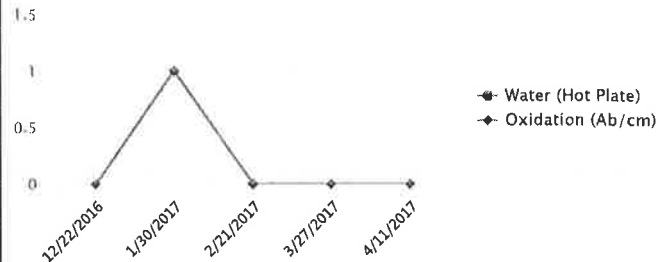
Wear



Contaminants



Physical Properties



Mobil Serv

Lubricant Analysis

Normal

Unit ID: GA005

Asset ID: 40481412

Description: boiler feed water pump (A)

Account Information

ID: 318801

Name: Gainesville Renewable Energy Center / POWER HOUSE

Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US

Parent Account: Gainesville Renewable Energy Center

Sample Information

Sample ID: 17115276051

Service Level: Essential

Bottle ID: a006121068

Tested Lubricant: MOBIL DTE 732

Equipment Information

Asset Class: Circulating System

Manufacturer: BOILER FEED PUMP

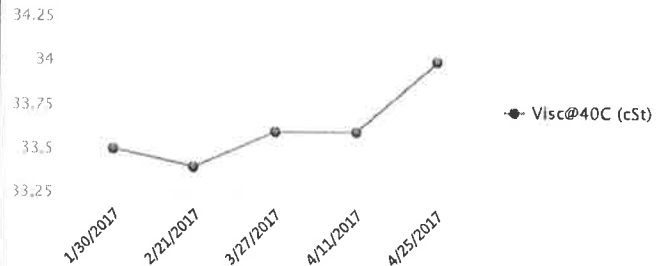
Model: CIRC RACK

Lubricant: MOBIL DTE 732

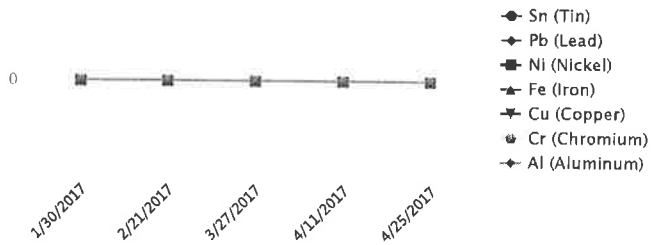
Sample Data & Trends

Report Status	Normal	Normal	Normal	Alert	Normal
Sample ID	17030209013	17052285009	17086139074	17101118006	17115276051
Service Level	Essential	Essential	Essential	Essential	Essential
Bottle ID	a005246289	a005288017	a005416514	a006120935	a006121068
Tested Lubricant	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732
Sampled	30 Jan 2017	21 Feb 2017	27 Mar 2017	11 Apr 2017	25 Apr 2017
Reported	31 Jan 2017	22 Feb 2017	28 Mar 2017	13 Apr 2017	26 Apr 2017
Equipment Age					
Equipment UOM					
Oil Age					
Oil UOM					
Make-up Volume					
Volume UOM					
Oil Changed					
Filter Changed					
Reservoir Temp					
Temperature UOM					
Contamination Rating	Normal	Normal	Normal	Alert	Normal
Equipment Rating	Normal	Normal	Normal	Normal	Normal
Oil Rating	Normal	Normal	Normal	Normal	Normal
Visc@40C (cSt)	33.5	33.4	33.6	33.6	34.0
Oxidation (Ab/cm)	1	0	0	0	0
Water (Hot Plate)	NotDetected	NotDetected	NotDetected	Detected	NotDetected
Al (Aluminum)	0	0	0	0	0
Cr (Chromium)	0	0	0	0	0
Cu (Copper)	0	0	0	0	0
Fe (Iron)	0	0	0	0	0
Mo (Molybdenum)	0	0	0	0	0
Ni (Nickel)	0	0	0	0	0
Pb (Lead)	0	0	0	0	0
Sn (Tin)	0	0	0	0	0
B (Boron)	0	0	0	0	0
K (Potassium)	0	0	0	0	0
Na (Sodium)	0	0	0	1	0
Si (Silicon)	0	1	0	0	0
Ba (Barium)	0	0	0	1	0
Ca (Calcium)	0	0	0	0	0
Mg (Magnesium)	0	0	0	0	0
P (Phosphorus)	0	0	0	0	1
Zn (Zinc)	1	2	1	0	2

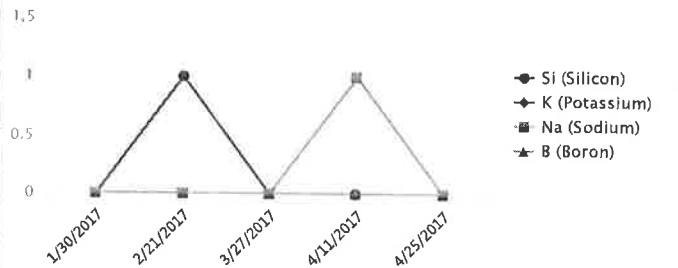
Viscosity



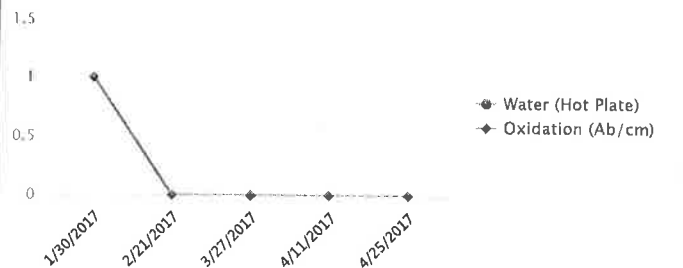
Wear



Contaminants



Physical Properties



Mobil Serv

Lubricant Analysis

Normal

Unit ID: GA006

Asset ID: 40481413

Description: boiler feed water (B)

Account Information

ID: 318801
 Name: Gainesville Renewable Energy Center / POWER HOUSE
 Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US
 Parent Account: Gainesville Renewable Energy Center

Sample Information

Sample ID: 17101118008
 Service Level: Essential
 Bottle ID: a006116414
 Tested Lubricant: MOBIL DTE 732

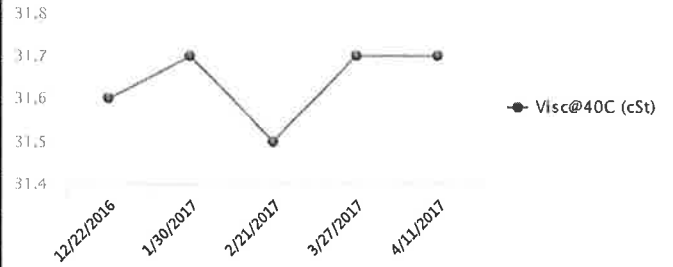
Equipment Information

Asset Class: Circulating System
 Manufacturer: BOILER FEED WATER (B)
 Model: CIRC RACK
 Lubricant: MOBIL DTE 732

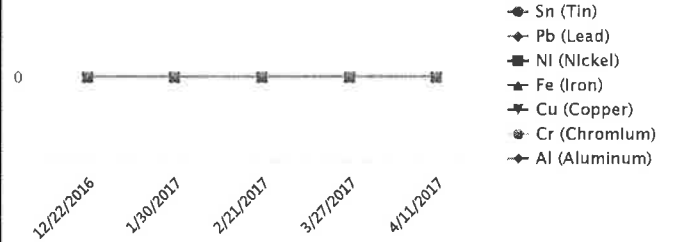
Sample Data & Trends

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Sample ID	1635726504517030209019170522850101708632000317101118008					
Service Level	Essential	Essential	Essential	Essential	Essential	Essential
Bottle ID	a004018399	a005249955	a005160870	a005545213	a006116414	
Tested Lubricant	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	
Sampled	22 Dec 2016	30 Jan 2017	21 Feb 2017	27 Mar 2017	11 Apr 2017	
Reported	23 Dec 2016	31 Jan 2017	22 Feb 2017	28 Mar 2017	13 Apr 2017	
Equipment Age						
Equipment UOM						
Oil Age						
Oil UOM						
Make-up Volume						
Volume UOM						
Oil Changed						
Filter Changed						
Contamination Rating	Normal	Normal	Normal	Normal	Normal	
Equipment Rating	Normal	Normal	Normal	Normal	Normal	
Oil Rating	Normal	Normal	Normal	Normal	Normal	
Visc@40C (cSt)	31.6	31.7	31.5	31.7	31.7	
Oxidation (Ab/cm)	0	0	0	0	0	
Water (Hot Plate)	NotDetected	NotDetected	NotDetected	NotDetected	NotDetected	
Al (Aluminum)	0	0	0	0	0	
Cr (Chromium)	0	0	0	0	0	
Cu (Copper)	0	0	0	0	0	
Fe (Iron)	0	0	0	0	0	
Mo (Molybdenum)	0	0	0	0	0	
Ni (Nickel)	0	0	0	0	0	
Pb (Lead)	0	0	0	0	0	
Sn (Tin)	0	0	0	0	0	
B (Boron)	0	0	0	0	0	
K (Potassium)	0	0	0	0	0	
Na (Sodium)	0	0	0	1	2	
Si (Silicon)	1	0	1	0	1	
Ba (Barium)	0	0	0	0	1	
Ca (Calcium)	0	0	0	0	0	
Mg (Magnesium)	0	0	0	0	0	
P (Phosphorus)	1	0	0	1	0	
Zn (Zinc)	0	0	0	0	0	

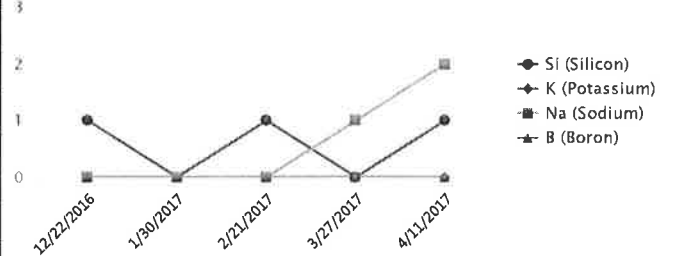
Viscosity



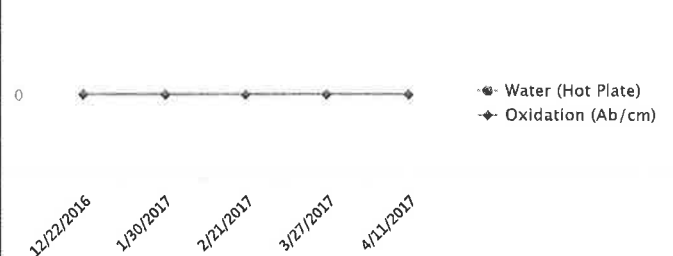
Wear



Contaminants



Physical Properties



Mobil Serv

Lubricant Analysis

Normal

Unit ID: GA007

Asset ID: 40465059

Description: turbine circ oil

Sample Information

Sample ID: 17101118007

Service Level: Essential

Bottle ID: a006117908

Tested Lubricant: MOBIL DTE 732

Equipment Information

Asset Class: Steam Turbine

Manufacturer:

Model: N/A

Lubricant: MOBIL DTE 732

Count Information

ID: 318801

Name: Gainesville Renewable Energy Center / POWER HOUSE

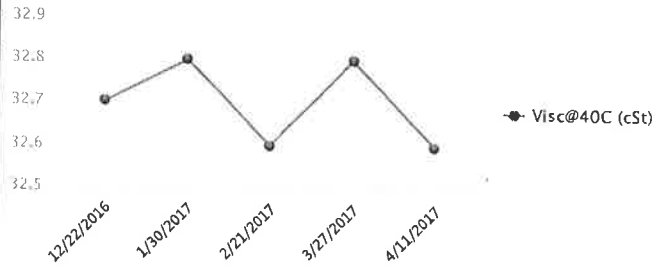
Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US

Parent Account: Gainesville Renewable Energy Center

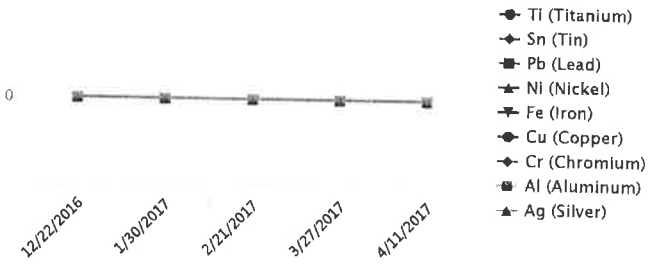
Sample Data & Trends

Report Status	Normal	Normal	Normal	Normal	Normal
Sample ID	16357265043	17030209014	17052285048	17086320001	17101118007
Service Level	Essential	Essential	Essential	Essential	Essential
Bottle ID	a004465631	a005249841	a005546077	a005369241	a006117908
Tested Lubricant	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732
Sampled	22 Dec 2016	30 Jan 2017	21 Feb 2017	27 Mar 2017	11 Apr 2017
Reported	23 Dec 2016	31 Jan 2017	22 Feb 2017	28 Mar 2017	13 Apr 2017
Equipment Age					
Equipment UOM					
Oil Age					
Oil UOM					
Make-up Volume					
Volume UOM					
Oil Changed					
Filter Changed					
Contamination Rating	Normal	Normal	Normal	Normal	Normal
Equipment Rating	Normal	Normal	Normal	Normal	Normal
Oil Rating	Normal	Normal	Normal	Normal	Normal
Visc@40C (cSt)	32.7	32.8	32.6	32.8	32.6
Oxidation (Ab/cm)	0	1	1	0	0
TAN (mg KOH/g)	0.11	0.14	0.10	0.10	0.09
Water (Vol%)	<0.003	<0.003	<0.003	<0.003	<0.003
Ag (Silver)	0	0	0	0	0
Al (Aluminum)	0	0	0	0	0
Cr (Chromium)	0	0	0	0	0
Cu (Copper)	0	0	0	0	0
Fe (Iron)	0	0	0	0	0
Mo (Molybdenum)	0	0	0	0	0
Ni (Nickel)	0	0	0	0	0
Pb (Lead)	0	0	0	0	0
Sn (Tin)	0	0	0	0	0
Ti (Titanium)	0	0	0	0	0
B (Boron)	0	0	0	0	0
K (Potassium)	2	0	0	4	0
Na (Sodium)	0	0	0	1	2
Si (Silicon)	0	0	0	0	0
V (Vanadium)	0	0	0	0	0
Ba (Barium)	0	0	0	0	1
Ca (Calcium)	1	0	1	1	0
Mg (Magnesium)	0	0	0	0	0
P (Phosphorus)	1	0	1	1	0
Zn (Zinc)	1	0	1	0	0

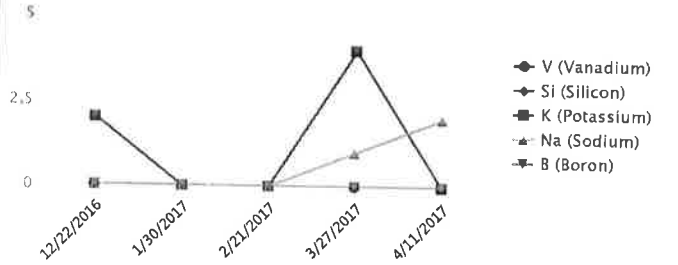
Viscosity



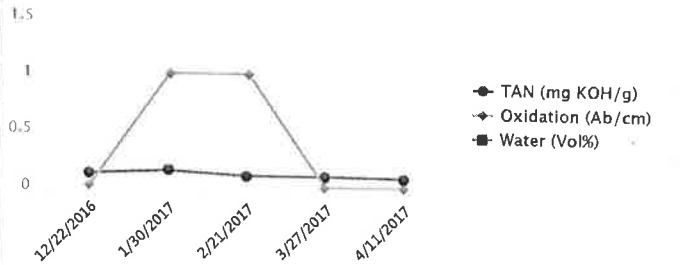
Wear



Contaminants



Physical Properties



Mobil Serv

Lubricant Analysis

Normal

Unit ID: GA008

Asset ID: 40481416

Description: turbine control oil (hydac)

Count Information

Sample Information

Equipment Information

ID: 318801

Sample ID: 17101118009

Asset Class: Circulating System

Name: Gainesville Renewable Energy Center / POWER HOUSE

Service Level: Essential

Manufacturer: HYDAC

Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US

Bottle ID: a005589289

Model: HYDAC CONTROL RACK

Parent Account: Gainesville Renewable Energy Center

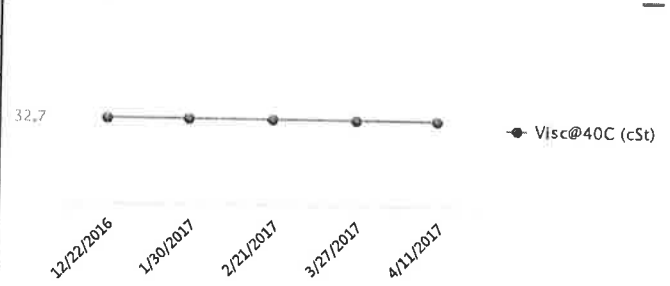
Tested Lubricant: MOBIL DTE 732

Lubricant: MOBIL DTE 732

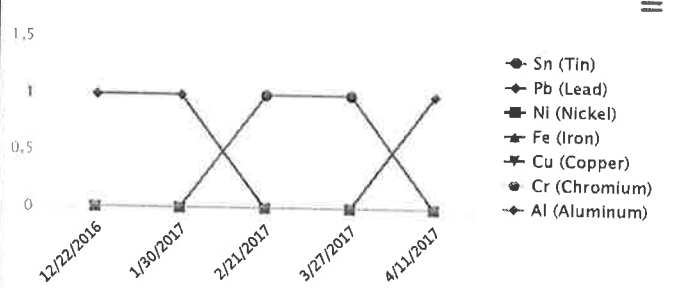
Sample Data & Trends

Report Status	Normal	Normal	Normal	Normal	Normal
Sample ID	16357265044	17030209016	17052285046	17086139072	17101118009
Service Level	Essential	Essential	Essential	Essential	Essential
Bottle ID	a004016013	a005249645	a005417078	a005280519	a005589289
Tested Lubricant	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732
Sampled	22 Dec 2016	30 Jan 2017	21 Feb 2017	27 Mar 2017	11 Apr 2017
Reported	23 Dec 2016	31 Jan 2017	22 Feb 2017	28 Mar 2017	13 Apr 2017
Equipment Age					
Equipment UOM					
Oil Age					
Oil UOM					
Make-up Volume					
Volume UOM					
Oil Changed					
Filter Changed					
Contamination Rating	Normal	Normal	Normal	Normal	Normal
Equipment Rating	Normal	Normal	Normal	Normal	Normal
Oil Rating	Normal	Normal	Normal	Normal	Normal
Visc@40C (cSt)	32.7	32.7	32.7	32.7	32.7
Oxidation (Ab/cm)	1	1	1	1	1
Water (Hot Plate)	NotDetected	NotDetected	NotDetected	NotDetected	NotDetected
Al (Aluminum)	0	0	0	0	0
Cr (Chromium)	0	0	0	0	0
Cu (Copper)	0	0	0	0	0
Fe (Iron)	0	0	0	0	0
Mo (Molybdenum)	0	0	0	0	0
Ni (Nickel)	0	0	0	0	0
Pb (Lead)	1	1	0	0	1
Sn (Tin)	0	0	1	1	0
B (Boron)	0	0	0	0	0
K (Potassium)	0	0	0	0	0
Na (Sodium)	0	0	1	2	2
Si (Silicon)	0	0	0	0	0
Ba (Barium)	0	0	0	0	0
Ca (Calcium)	9	9	9	9	7
Mg (Magnesium)	1	1	0	1	0
P (Phosphorus)	9	9	10	10	9
Zn (Zinc)	17	19	19	18	18

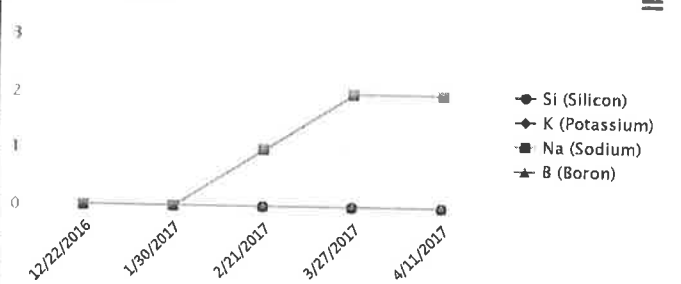
Viscosity



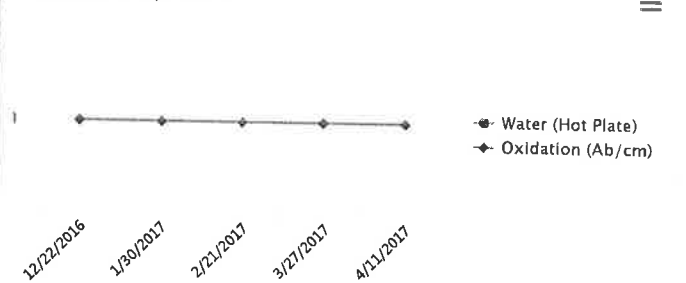
Wear



Contaminants



Physical Properties



Unit ID: GA002

Asset ID: 40481405

Description: P.A. fan

Reset Sample to Normal
Good

Account Information

ID: 318801
Name: Gainesville Renewable Energy Center / POWER HOUSE
Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US
Parent Account: Gainesville Renewable Energy Center

Sample Information

Sample ID: 17178230058
Service Level: Essential
Bottle ID: a006570574
Tested Lubricant: DTE HEAVY MEDIUM

Equipment Information

Asset Class: Circulating System
Manufacturer: P.A. FAN
Model: BEARING RACK
Lubricant: DTE HEAVY MEDIUM

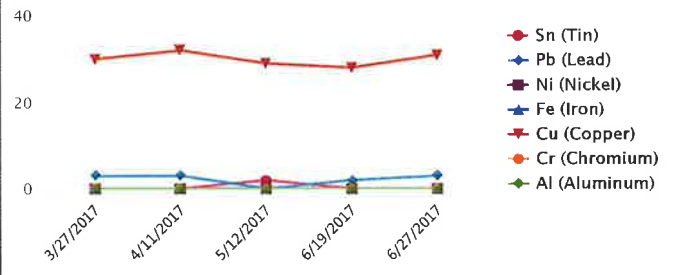
Sample Data & Trends

Report Status	Normal	Normal	Normal	Alert	Normal
Sample ID	17086270055	17101271026	17132297022	17170347035	17178230058
Service Level	Essential	Essential	Essential	Essential	Essential
Bottle ID	a005285699	a006120082	a005589569	a006565315	a006570574
Tested Lubricant	DTE HEAVY MEDIUM	DTE HEAVY MEDIUM	DTE HEAVY MEDIUM	DTE HEAVY MEDIUM	DTE HEAVY MEDIUM
Sampled	27 Mar 2017	11 Apr 2017	12 May 2017	19 Jun 2017	27 Jun 2017
Reported	28 Mar 2017	13 Apr 2017	16 May 2017	21 Jun 2017	28 Jun 2017
Equipment Age					
Equipment UOM					
Oil Age					
Oil UOM					
Make-up Volume					
Volume UOM					
Oil Changed					
Filter Changed					
Reservoir Temp					
Temperature UOM					
Contamination Rating	Normal	Normal	Normal	Alert	Normal
Equipment Rating	Normal	Normal	Normal	Normal	Normal
Oil Rating	Normal	Normal	Normal	Normal	Normal
Visc@40C (cSt)	67.1	67.4	67.1	67.2	67.2
Oxidation (Ab/cm)	0	0	0	0	0
Water (Hot Plate)	NotDetected	NotDetected	NotDetected	Detected	NotDetected
Al (Aluminum)	0	0	0	0	0
Cr (Chromium)	0	0	0	0	0
Cu (Copper)	30	32	29	28	31
Fe (Iron)	0	0	0	0	0
Mo (Molybdenum)	0	0	0	0	0
Ni (Nickel)	0	0	0	0	0
Pb (Lead)	3	3	0	2	3
Sn (Tin)	0	0	2	0	0
K (Potassium)	0	0	1	0	1
Na (Sodium)	0	1	0	1	0
Si (Silicon)	1	1	1	2	2
B (Boron)	0	0	0	0	0
Ba (Barium)	0	0	0	0	0
Ca (Calcium)	81	79	75	74	83
Mg (Magnesium)	0	0	0	0	0
P (Phosphorus)	234	259	225	245	251
Zn (Zinc)	298	295	287	296	323

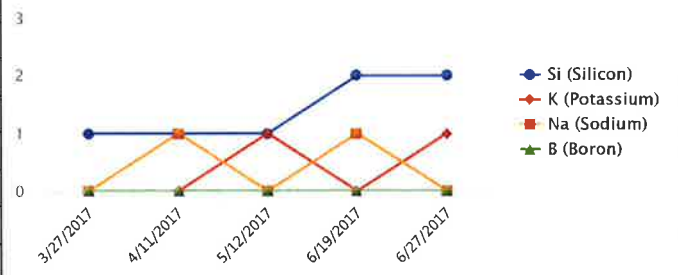
Viscosity



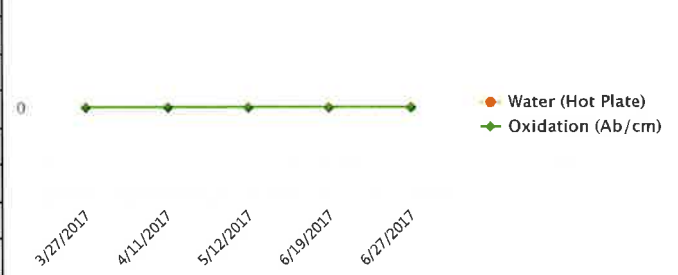
Wear



Contaminants



Physical Properties





Alert

Unit ID: GA002

Asset ID: 40481405

Description: P.A. fan

Account Information

ID: 318801
Name: Gainesville Renewable Energy Center / POWER HOUSE
Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US
Parent Account: Gainesville Renewable Energy Center

Sample Information

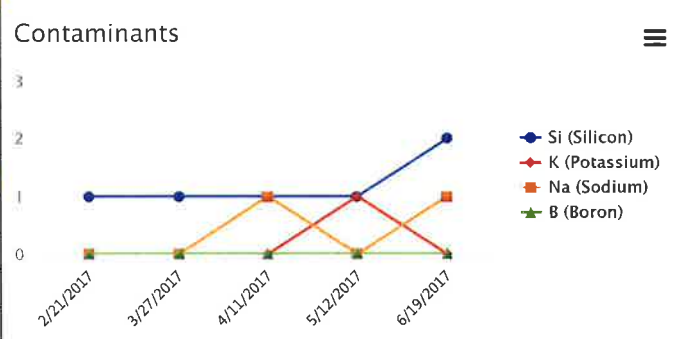
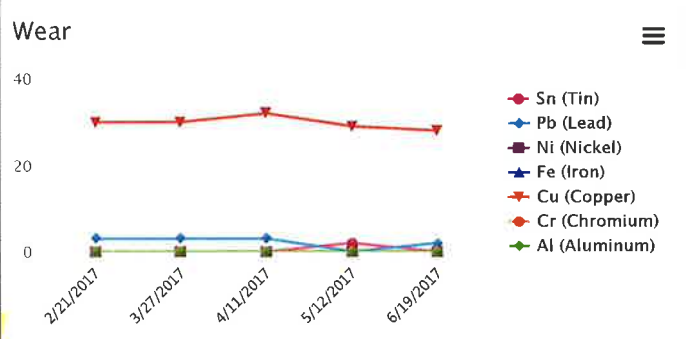
Sample ID: 17170347035
Service Level: Essential
Bottle ID: a006565315
Tested Lubricant: DTE HEAVY MEDIUM

Equipment Information

Asset Class: Circulating System
Manufacturer: P.A. FAN
Model: BEARING RACK
Lubricant: DTE HEAVY MEDIUM

Sample Data & Trends

Table with columns for Report Status, Sample ID, Service Level, Bottle ID, Tested Lubricant, Sampled, Reported, Equipment Age, Equipment UOM, Oil Age, Oil UOM, Make-up Volume, Volume UOM, Oil Changed, Filter Changed, Reservoir Temp, Temperature UOM, Contamination Rating, Equipment Rating, Oil Rating, Visc@40C (cSt), Oxidation (Ab/cm), Water (Hot Plate), Al (Aluminum), Cr (Chromium), Cu (Copper), Fe (Iron), Mo (Molybdenum), Ni (Nickel), Pb (Lead), Sn (Tin), K (Potassium), Na (Sodium), Si (Silicon), B (Boron), Ba (Barium), Ca (Calcium), Mg (Magnesium), P (Phosphorus), Zn (Zinc).



Changed Oil

Alert

Unit ID: GA005

Asset ID: 40481412

Description: **boiler feed water pump (A)**

Account Information

ID: 318801
 Name: Gainesville Renewable Energy Center / POWER HOUSE
 Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US
 Parent Account: Gainesville Renewable Energy Center

Sample Information

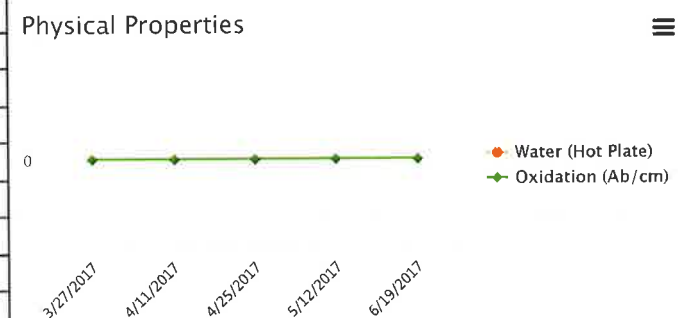
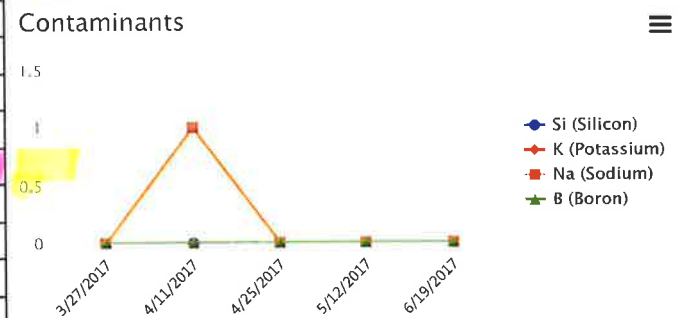
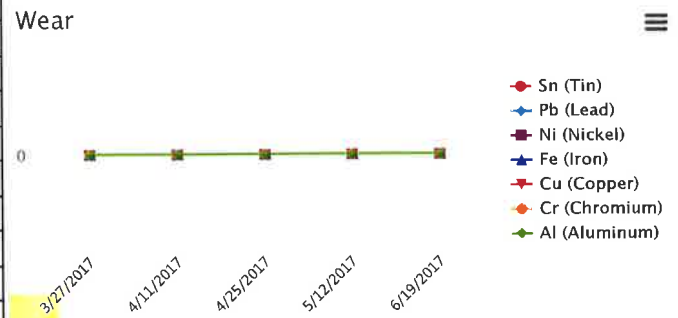
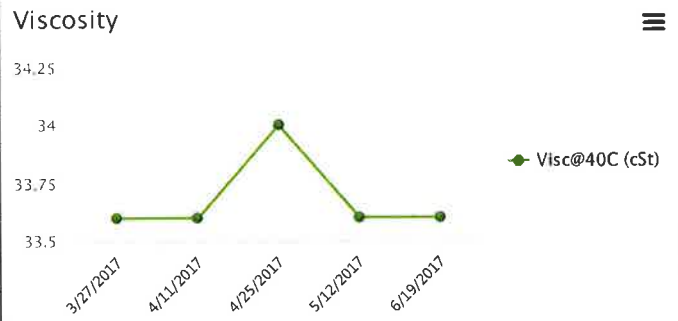
Sample ID: 17170382045
 Service Level: Essential
 Bottle ID: a006508240
 Tested Lubricant: MOBIL DTE 732

Equipment Information

Asset Class: **Circulating System**
 Manufacturer: **BOILER FEED PUMP**
 Model: **CIRC RACK**
 Lubricant: **MOBIL DTE 732**

Sample Data & Trends

Report Status	Normal	Alert	Normal	Normal	Alert
Sample ID	17086139074171011180061711527605117132275038				17170382045
Service Level	Essential	Essential	Essential	Essential	Essential
Bottle ID	a005416514	a006120935	a006121068	a006125638	a006508240
Tested Lubricant	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732
Sampled	27 Mar 2017	11 Apr 2017	25 Apr 2017	12 May 2017	19 Jun 2017
Reported	28 Mar 2017	13 Apr 2017	26 Apr 2017	16 May 2017	21 Jun 2017
Equipment Age					
Equipment UOM					
Oil Age					
Oil UOM					
Make-up Volume					
Volume UOM					
Oil Changed					
Filter Changed					
Reservoir Temp					
Temperature UOM					
Contamination Rating	Normal	Alert	Normal	Normal	Alert
Equipment Rating	Normal	Normal	Normal	Normal	Normal
Oil Rating	Normal	Normal	Normal	Normal	Normal
Visc@40C (cSt)	33.6	33.6	34.0	33.6	33.6
Oxidation (Ab/cm)	0	0	0	0	0
Water (Hot Plate)	NotDetected	Detected	NotDetected	NotDetected	Detected
Al (Aluminum)	0	0	0	0	0
Cr (Chromium)	0	0	0	0	0
Cu (Copper)	0	0	0	0	0
Fe (Iron)	0	0	0	0	0
Mo (Molybdenum)	0	0	0	0	0
Ni (Nickel)	0	0	0	0	0
Pb (Lead)	0	0	0	0	0
Sn (Tin)	0	0	0	0	0
K (Potassium)	0	0	0	0	0
Na (Sodium)	0	1	0	0	0
Si (Silicon)	0	0	0	0	0
B (Boron)	0	0	0	0	0
Ba (Barium)	0	1	0	0	0
Ca (Calcium)	0	0	0	0	0
Mg (Magnesium)	0	0	0	1	0
P (Phosphorus)	0	0	1	11	0
Zn (Zinc)	1	0	2	1	1





Normal

Unit ID: GA004

Asset ID: 40481410

Description: FGR fan

Account Information

ID: 318801
Name: Gainesville Renewable Energy Center / POWER HOUSE
Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US
Parent Account: Gainesville Renewable Energy Center

Sample Information

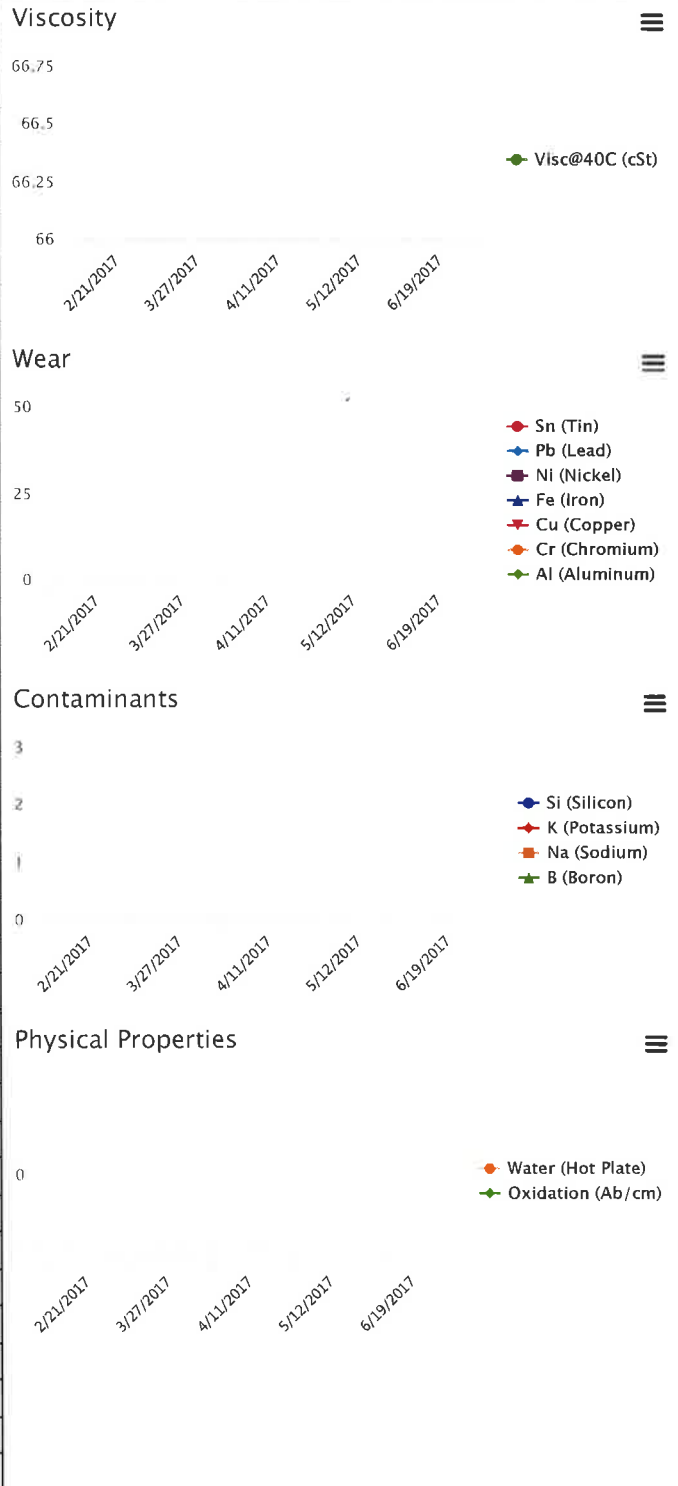
Sample ID: 17170347037
Service Level: Essential
Bottle ID: a006119721
Tested Lubricant: DTE HEAVY MEDIUM

Equipment Information

Asset Class: Circulating System
Manufacturer: FGR FAN
Model: BEARING RACK
Lubricant: DTE HEAVY MEDIUM

Sample Data & Trends

Table with columns for Report Status, Sample ID, Service Level, Bottle ID, Tested Lubricant, Sampled, Reported, Equipment Age, Equipment UOM, Oil Age, Oil UOM, Make-up Volume, Volume UOM, Oil Changed, Filter Changed, Reservoir Temp, Temperature UOM, Contamination Rating, Equipment Rating, Oil Rating, Visc@40C (cSt), Oxidation (Ab/cm), Water (Hot Plate), and various contaminants (Al, Cr, Cu, Fe, Mo, Ni, Pb, Sn, K, Na, Si, B, Ba, Ca, Mg, P, Zn).





Normal

Unit ID: GA001

Asset ID: 40479201

Description: S.A. fan

Account Information

ID: 318801
 Name: Gainesville Renewable Energy Center / POWER HOUSE
 Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US
 Parent Account: Gainesville Renewable Energy Center

Sample Information

Sample ID: 17170347038
 Service Level: Essential
 Bottle ID: a006117753
 Tested Lubricant: DTE HEAVY MEDIUM

Equipment Information

Asset Class: Circulating System
 Manufacturer: N/A
 Model: N/A
 Lubricant: DTE HEAVY MEDIUM

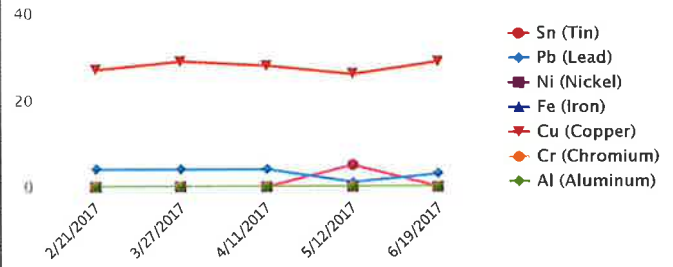
Sample Data & Trends

Report Status	Normal	Normal	Normal	Normal	Normal
Sample ID	17052231043170862700541710127102717132297025	17170347038			
Service Level	Essential	Essential	Essential	Essential	Essential
Bottle ID	a005541321	a005543128	a005334519	a006117949	a006117753
Tested Lubricant	DTE HEAVY MEDIUM	DTE HEAVY MEDIUM	DTE HEAVY MEDIUM	DTE HEAVY MEDIUM	DTE HEAVY MEDIUM
Sampled	21 Feb 2017	27 Mar 2017	11 Apr 2017	12 May 2017	19 Jun 2017
Reported	22 Feb 2017	28 Mar 2017	13 Apr 2017	16 May 2017	21 Jun 2017
Equipment Age					
Equipment UOM					
Oil Age					
Oil UOM					
Make-up Volume					
Volume UOM					
Oil Changed					
Filter Changed					
Reservoir Temp					
Temperature UOM					
Contamination Rating	Normal	Normal	Normal	Normal	Normal
Equipment Rating	Normal	Normal	Normal	Normal	Normal
Oil Rating	Normal	Normal	Normal	Normal	Normal
Visc@40C (cSt)	66.9	66.7	67.1	66.9	66.7
Oxidation (Ab/cm)	0	0	0	0	0
Water (Hot Plate)	NotDetected	NotDetected	NotDetected	NotDetected	NotDetected
Al (Aluminum)	0	0	0	0	0
Cr (Chromium)	0	0	0	0	0
Cu (Copper)	27	29	28	26	29
Fe (Iron)	0	0	0	0	0
Mo (Molybdenum)	0	0	0	0	0
Ni (Nickel)	0	0	0	0	0
Pb (Lead)	4	4	4	1	3
Sn (Tin)	0	0	0	5	0
K (Potassium)	3	0	0	0	0
Na (Sodium)	1	1	0	0	1
Si (Silicon)	1	1	1	1	1
B (Boron)	0	1	1	0	0
Ba (Barium)	0	0	0	0	0
Ca (Calcium)	138	141	143	135	138
Mg (Magnesium)	0	3	1	2	0
P (Phosphorus)	228	236	261	217	230
Zn (Zinc)	280	280	295	278	270

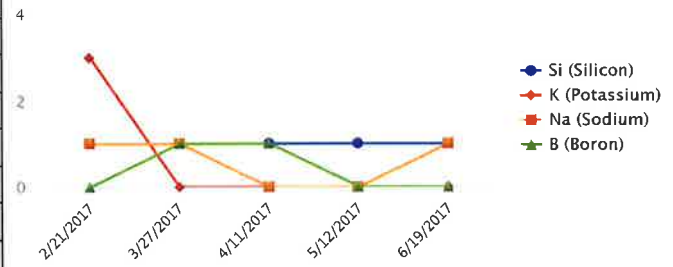
Viscosity



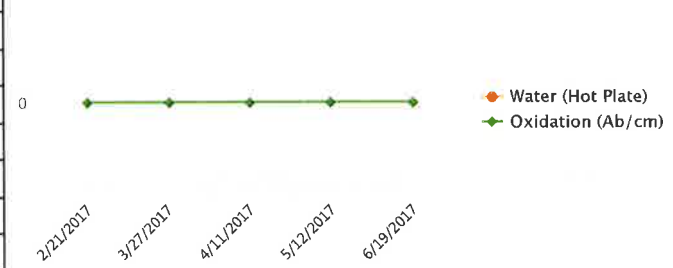
Wear



Contaminants



Physical Properties



Account Information

ID: 318801
 Name: Gainesville Renewable Energy Center / POWER HOUSE
 Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US
 Parent Account: Gainesville Renewable Energy Center

Sample Information

Sample ID: 17170347036
 Service Level: Essential
 Bottle ID: a006570221
 Tested Lubricant: DTE HEAVY MEDIUM

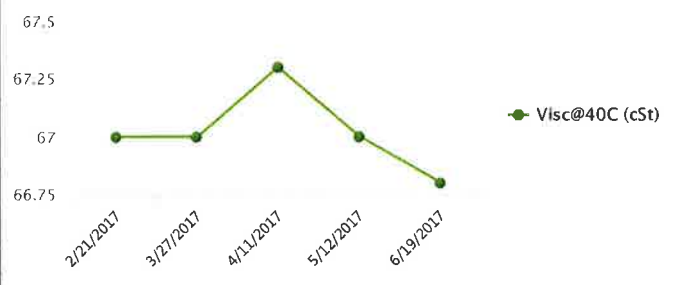
Equipment Information

Asset Class: Circulating System
 Manufacturer: I.D. FAN
 Model: BEARING RACK
 Lubricant: DTE HEAVY MEDIUM

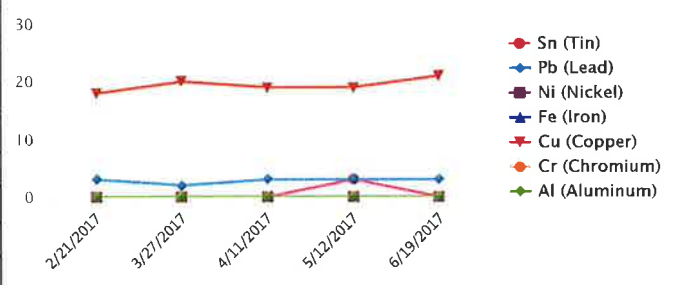
Sample Data & Trends

Report Status	Normal	Normal	Normal	Normal	Normal
Sample ID	17052231045	17086270049	17101271029	17132297023	17170347036
Service Level	Essential	Essential	Essential	Essential	Essential
Bottle ID	a005546003	a005500255	a005162632	a006119220	a006570221
Tested Lubricant	DTE HEAVY MEDIUM	DTE HEAVY MEDIUM	DTE HEAVY MEDIUM	DTE HEAVY MEDIUM	DTE HEAVY MEDIUM
Sampled	21 Feb 2017	27 Mar 2017	11 Apr 2017	12 May 2017	19 Jun 2017
Reported	22 Feb 2017	28 Mar 2017	13 Apr 2017	16 May 2017	21 Jun 2017
Equipment Age					
Equipment UOM					
Oil Age					
Oil UOM					
Make-up Volume					
Volume UOM					
Oil Changed					
Filter Changed					
Reservoir Temp					
Temperature UOM					
Contamination Rating	Normal	Normal	Normal	Normal	Normal
Equipment Rating	Normal	Normal	Normal	Normal	Normal
Oil Rating	Normal	Normal	Normal	Normal	Normal
Visc@40C (cSt)	67.0	67.0	67.3	67.0	66.8
Oxidation (Ab/cm)	0	0	0	0	0
Water (Hot Plate)	NotDetected	NotDetected	NotDetected	NotDetected	NotDetected
Al (Aluminum)	0	0	0	0	0
Cr (Chromium)	0	0	0	0	0
Cu (Copper)	18	20	19	19	21
Fe (Iron)	0	0	0	0	0
Mo (Molybdenum)	0	0	0	0	0
Ni (Nickel)	0	0	0	0	0
Pb (Lead)	3	2	3	3	3
Sn (Tin)	0	0	0	3	0
K (Potassium)	0	0	0	0	0
Na (Sodium)	0	0	0	0	1
Si (Silicon)	1	0	1	1	1
B (Boron)	0	0	0	0	0
Ba (Barium)	0	0	0	0	0
Ca (Calcium)	11	10	11	11	10
Mg (Magnesium)	0	0	0	0	0
P (Phosphorus)	137	136	150	139	134
Zn (Zinc)	114	110	110	111	104

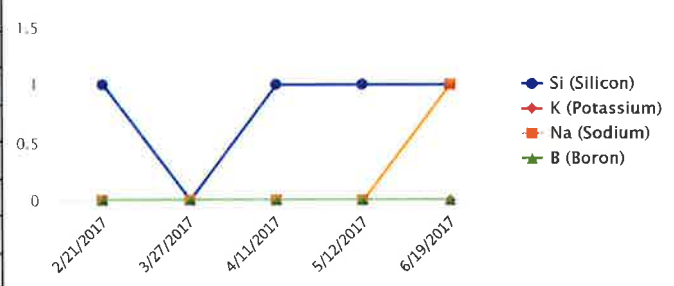
Viscosity



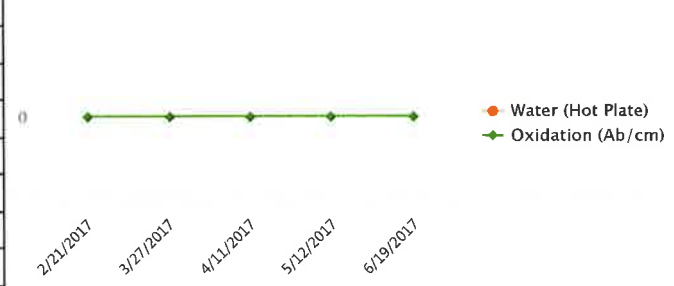
Wear



Contaminants



Physical Properties





Normal

Unit ID: GA008

Asset ID: 40481416

Description: turbine control oil (hydac)

Account Information

ID: 318801
 Name: Gainesville Renewable Energy Center / POWER HOUSE
 Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US
 Parent Account: Gainesville Renewable Energy Center

Sample Information

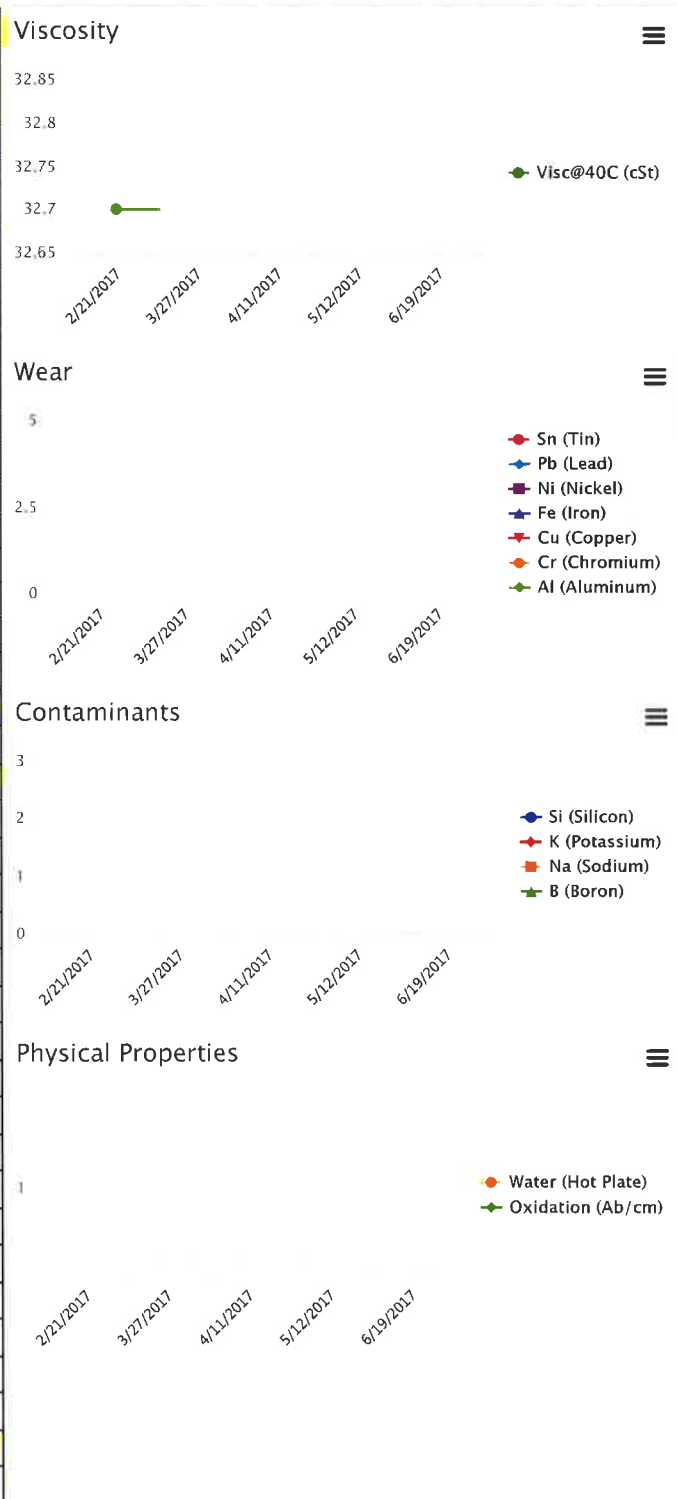
Sample ID: 17170382048
 Service Level: Essential
 Bottle ID: a006565622
 Tested Lubricant: MOBIL DTE 732

Equipment Information

Asset Class: Circulating System
 Manufacturer: HYDAC
 Model: HYDAC CONTROL RACK
 Lubricant: MOBIL DTE 732

Sample Data & Trends

Report Status	Normal	Normal	Normal	Normal	Normal
Sample ID	17052285046	17086139072	17101118009	17132275039	17170382048
Service Level	Essential	Essential	Essential	Essential	Essential
Bottle ID	a005417078	a005280519	a005589289	a005589514	a006565622
Tested Lubricant	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732
Sampled	21 Feb 2017	27 Mar 2017	11 Apr 2017	12 May 2017	19 Jun 2017
Reported	22 Feb 2017	28 Mar 2017	13 Apr 2017	16 May 2017	21 Jun 2017
Equipment Age					
Equipment UOM					
Oil Age					
Oil UOM					
Make-up Volume					
Volume UOM					
Oil Changed					
Filter Changed					
Reservoir Temp					
Temperature UOM					
Contamination Rating	Normal	Normal	Normal	Normal	Normal
Equipment Rating	Normal	Normal	Normal	Normal	Normal
Oil Rating	Normal	Normal	Normal	Normal	Normal
Visc@40C (cSt)	32.7	32.7	32.7	32.8	32.8
Oxidation (Ab/cm)	1	1	1	1	1
Water (Hot Plate)	NotDetected	NotDetected	NotDetected	NotDetected	NotDetected
Al (Aluminum)	0	0	0	0	0
Cr (Chromium)	0	0	0	0	0
Cu (Copper)	0	0	0	0	0
Fe (Iron)	0	0	0	1	1
Mo (Molybdenum)	0	0	0	1	0
Ni (Nickel)	0	0	0	0	0
Pb (Lead)	0	0	1	0	1
Sn (Tin)	1	1	0	4	0
K (Potassium)	0	0	0	0	0
Na (Sodium)	1	2	2	0	1
Si (Silicon)	0	0	0	0	0
B (Boron)	0	0	0	0	0
Ba (Barium)	0	0	0	0	0
Ca (Calcium)	9	9	7	7	9
Mg (Magnesium)	0	1	0	2	0
P (Phosphorus)	10	10	9	15	8
Zn (Zinc)	19	18	18	16	19





Normal

Unit ID: GA006

Asset ID: 40481413

Description: boiler feed water (B)

Account Information

ID: 318801
 Name: Gainesville Renewable Energy Center / POWER HOUSE
 Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US
 Parent Account: Gainesville Renewable Energy Center

Sample Information

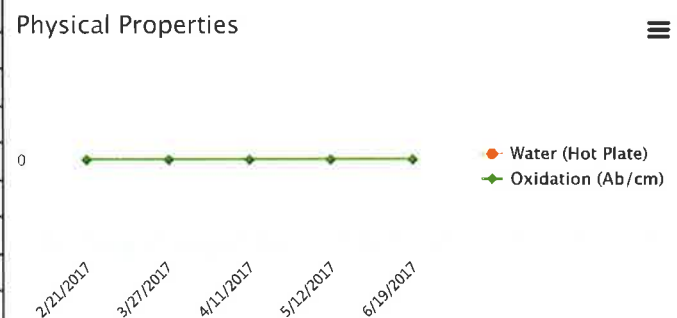
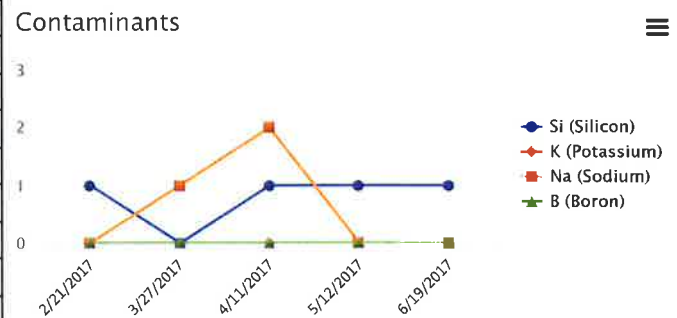
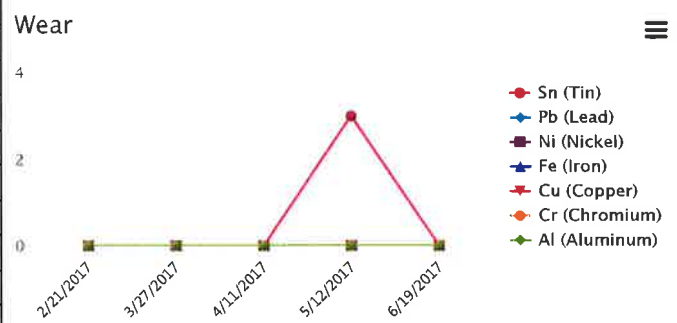
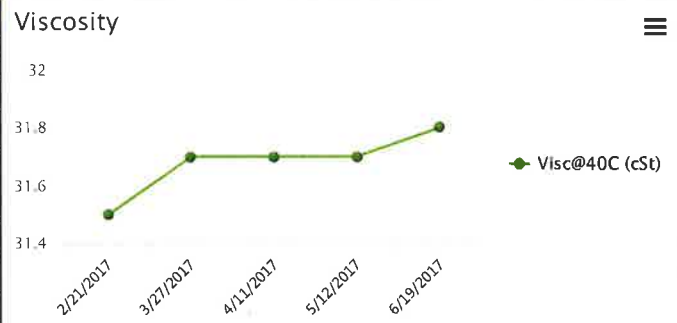
Sample ID: 17170382046
 Service Level: Essential
 Bottle ID: a006509435
 Tested Lubricant: MOBIL DTE 732

Equipment Information

Asset Class: Circulating System
 Manufacturer: BOILER FEED WATER (B)
 Model: CIRC RACK
 Lubricant: MOBIL DTE 732

Sample Data & Trends

Report Status	Normal	Normal	Normal	Normal	Normal
Sample ID	17052285010170863200031710111800817132275041				17170382046
Service Level	Essential	Essential	Essential	Essential	Essential
Bottle ID	a005160870	a005545213	a006116414	a006120523	a006509435
Tested Lubricant	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732
Sampled	21 Feb 2017	27 Mar 2017	11 Apr 2017	12 May 2017	19 Jun 2017
Reported	22 Feb 2017	28 Mar 2017	13 Apr 2017	16 May 2017	21 Jun 2017
Equipment Age					
Equipment UOM					
Oil Age					
Oil UOM					
Make-up Volume					
Volume UOM					
Oil Changed					
Filter Changed					
Reservoir Temp					
Temperature UOM					
Contamination Rating	Normal	Normal	Normal	Normal	Normal
Equipment Rating	Normal	Normal	Normal	Normal	Normal
Oil Rating	Normal	Normal	Normal	Normal	Normal
Visc@40C (cSt)	31.5	31.7	31.7	31.7	31.8
Oxidation (Ab/cm)	0	0	0	0	0
Water (Hot Plate)	NotDetected	NotDetected	NotDetected	NotDetected	NotDetected
Al (Aluminum)	0	0	0	0	0
Cr (Chromium)	0	0	0	0	0
Cu (Copper)	0	0	0	0	0
Fe (Iron)	0	0	0	0	0
Mo (Molybdenum)	0	0	0	0	0
Ni (Nickel)	0	0	0	0	0
Pb (Lead)	0	0	0	0	0
Sn (Tin)	0	0	0	3	0
K (Potassium)	0	0	0	0	0
Na (Sodium)	0	1	2	0	0
Si (Silicon)	1	0	1	1	1
B (Boron)	0	0	0	0	0
Ba (Barium)	0	0	1	0	0
Ca (Calcium)	0	0	0	0	0
Mg (Magnesium)	0	0	0	0	0
P (Phosphorus)	0	1	0	3	0
Zn (Zinc)	0	0	0	0	0



Unit ID: GA007

Asset ID: 40465059

Description: turbine circ oil

Account Information

ID: 318801

Name: Gainesville Renewable Energy Center / POWER HOUSE

Address: 11201 Nw 13th Street, Gainesville, FL 32653-0000 US

Parent Account: Gainesville Renewable Energy Center

Sample Information

Sample ID: 17170382047

Service Level: Essential

Bottle ID: a006570324

Tested Lubricant: MOBIL DTE 732

Equipment Information

Asset Class: Steam Turbine

Manufacturer:

Model: N/A

Lubricant: MOBIL DTE 732

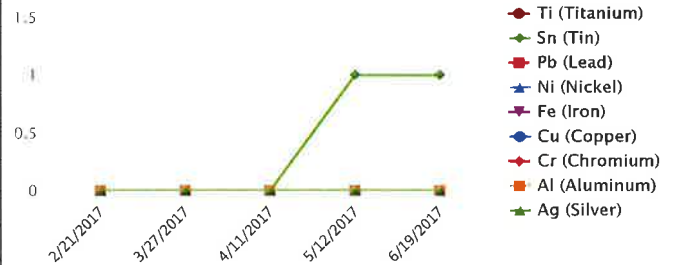
Sample Data & Trends

Report Status	Normal	Normal	Normal	Normal	Normal
Sample ID	17052285048	17086320001	17101118007	17132275040	17170382047
Service Level	Essential	Essential	Essential	Essential	Essential
Bottle ID	a005546077	a005369241	a006117908	a006118078	a006570324
Tested Lubricant	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732	MOBIL DTE 732
Sampled	21 Feb 2017	27 Mar 2017	11 Apr 2017	12 May 2017	19 Jun 2017
Reported	22 Feb 2017	28 Mar 2017	13 Apr 2017	15 May 2017	21 Jun 2017
Equipment Age					
Equipment UOM					
Oil Age					
Oil UOM					
Make-up Volume					
Volume UOM					
Oil Changed					
Filter Changed					
Reservoir Temp					
Temperature UOM					
Contamination Rating	Normal	Normal	Normal	Normal	Normal
Equipment Rating	Normal	Normal	Normal	Normal	Normal
Oil Rating	Normal	Normal	Normal	Normal	Normal
Visc@40C (cSt)	32.6	32.8	32.6	32.7	32.7
Oxidation (Ab/cm)	1	0	0	1	1
TAN (mg KOH/g)	0.10	0.10	0.09	0.09	0.08
Water (Vol%)	<0.003	<0.003	<0.003	0.005	<0.003
Ag (Silver)	0	0	0	0	0
Al (Aluminium)	0	0	0	0	0
Cr (Chromium)	0	0	0	0	0
Cu (Copper)	0	0	0	0	0
Fe (Iron)	0	0	0	0	0
Mo (Molybdenum)	0	0	0	0	0
Ni (Nickel)	0	0	0	0	0
Pb (Lead)	0	0	0	0	0
Sn (Tin)	0	0	0	1	1
Ti (Titanium)	0	0	0	0	0
K (Potassium)	0	4	0	0	0
Na (Sodium)	0	1	2	0	0
Si (Silicon)	0	0	0	0	0
V (Vanadium)	0	0	0	0	0
B (Boron)	0	0	0	0	0
Ba (Barium)	0	0	1	0	0
Ca (Calcium)	1	1	0	1	0
Mg (Magnesium)	0	0	0	0	0
P (Phosphorus)	1	1	0	5	0
Zn (Zinc)	1	0	0	0	0

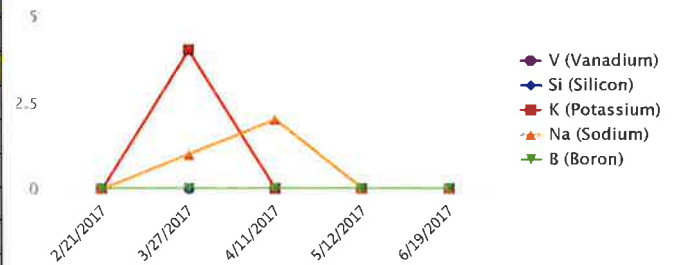
Viscosity



Wear



Contaminants



Physical Properties

