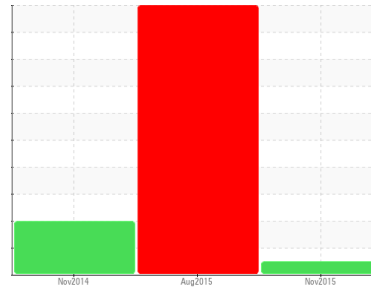




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**West Plant**  
 Machine Id  
**QUINCY VP16**  
 Component  
**Pump**  
 Fluid  
**VACOIL 20 (24 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WCI2291137</b>	WCI2291425	WCI2267036
Sample Date	Client Info		<b>19 Nov 2015</b>	27 Aug 2015	05 Nov 2014
Machine Age	hrs	Client Info	<b>95408</b>	94146	91877
Oil Age	hrs	Client Info	<b>1170</b>	1792	2363
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	N/A
Sample Status			<b>NORMAL</b>	SEVERE	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	<b>0</b>	<1	<1
Chromium	ppm	ASTM D5185m	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >7	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185m >12	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >30	<b>&lt;1</b>	1	2
Tin	ppm	ASTM D5185m >9	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	<b>15</b>	89	82
Phosphorus	ppm	ASTM D5185m	<b>48</b>	283	304
Zinc	ppm	ASTM D5185m	<b>70</b>	397	377
Sulfur	ppm	ASTM D5185m	<b>241</b>	1230	1617

## CONTAMINANTS

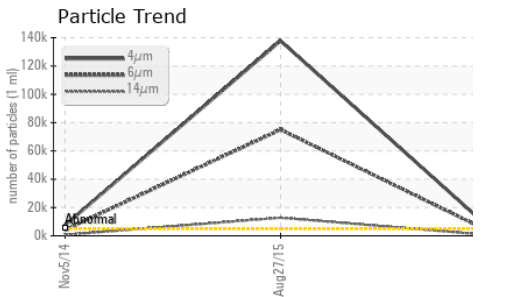
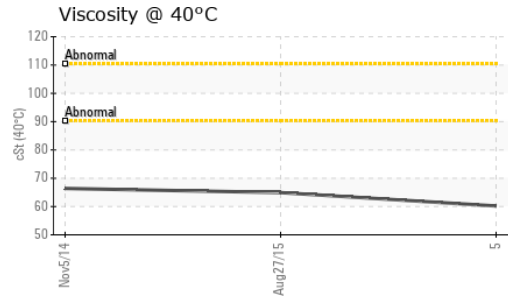
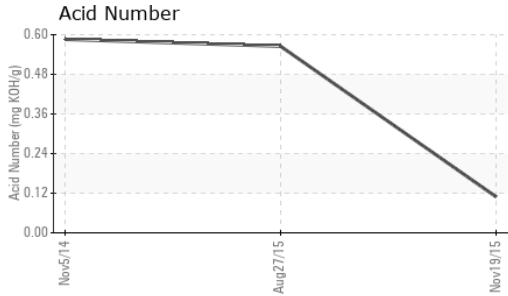
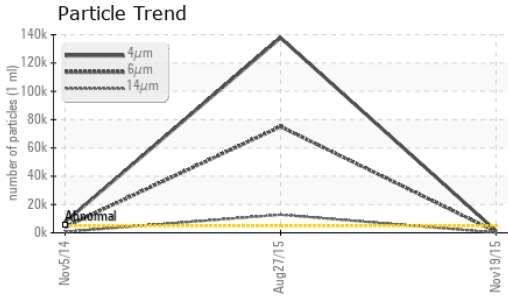
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >60	<b>&lt;1</b>	2	4
Sodium	ppm	ASTM D5185m	<b>4</b>	12	15
Potassium	ppm	ASTM D5185m >20	<b>0</b>	10	3

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>1348.</b>	137768.	7518
Particles >6µm	ASTM D7647	>1300	<b>734.</b>	75048.	4095
Particles >14µm	ASTM D7647	>160	<b>125.</b>	12786.	697
Particles >21µm	ASTM D7647	>40	<b>42.</b>	4314.	235
Particles >38µm	ASTM D7647	>10	<b>6.</b>	666.	36
Particles >71µm	ASTM D7647	>3	<b>0.</b>	68.	3
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>18/17/14</b>	24/23/21	20/19/17



# OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.109</b>	0.565	0.586

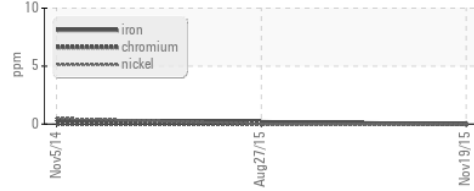
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>60.19</b>	64.92	66.39

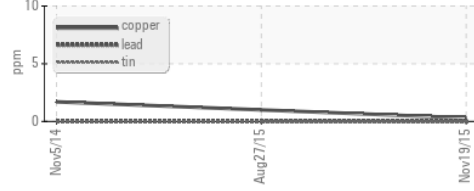
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS

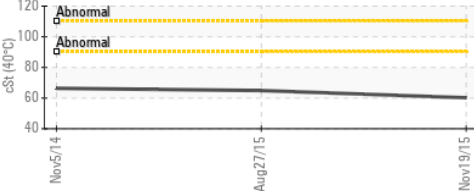
### Ferrous Alloys



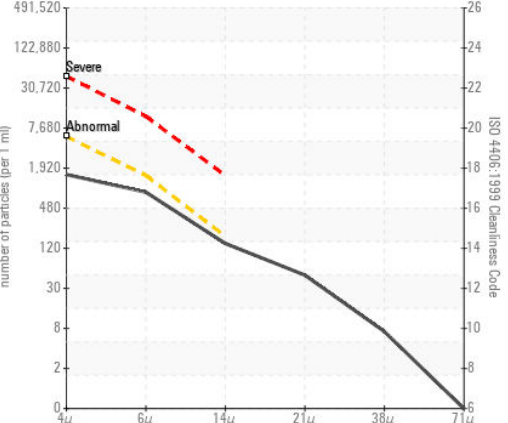
### Non-ferrous Metals



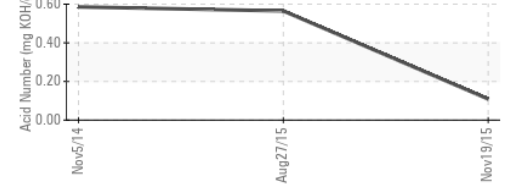
### Viscosity @ 40°C



### Particle Count



### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC12291137 **Received** : 25 Nov 2015  
**Lab Number** : **03871515** **Diagnosed** : 01 Dec 2015  
**Unique Number** : 7216751 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**PRINSCO - PRINSBURG**  
 PO BOX 265  
 PRINSBURG, MN  
 US 56281  
 Contact: KYLE SPORTEL  
 kyles@prinsco.com  
 T: (320)978-4116  
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)