



# OIL ANALYSIS REPORT



Area  
**KANSAS/44/EG - ROLLER/COMPACTOR**  
 Machine Id  
**64.105L [KANSAS^44^EG - ROLLER/COMPACTOR]**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

## Sample Rating Trend



ISO



## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

Particles >21µm are abnormally high. Particles >6µm are abnormally high. Particles >14µm are notably high. Particles >38µm are notably high. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

### Fluid Condition

The condition of the oil is acceptable for the time in service. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

## SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	<b>WCMCF21124</b>	---	---
Sample Date	Client Info	<b>18 Sep 2015</b>	---	---
Machine Age	hrs	Client Info	<b>496</b>	---
Oil Age	hrs	Client Info	<b>0</b>	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history 1	history 2		
Iron	ppm	ASTM D5185m	>20	<b>8</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m		<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185m	>10	<b>2</b>	---	---
Copper	ppm	ASTM D5185m	>75	<b>11</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>2</b>	---	---
Antimony	ppm	ASTM D5185m		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history 1	history 2		
Boron	ppm	ASTM D5185m	0	<b>0</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m		<b>2</b>	---	---
Magnesium	ppm	ASTM D5185m	0	<b>2</b>	---	---
Calcium	ppm	ASTM D5185m		<b>48</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>348</b>	---	---
Zinc	ppm	ASTM D5185m		<b>530</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>2616</b>	---	---

## CONTAMINANTS

method	limit/base	current	history 1	history 2		
Silicon	ppm	ASTM D5185m	>20	<b>5</b>	---	---
Sodium	ppm	ASTM D5185m		<b>2</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---	---

## FLUID CLEANLINESS

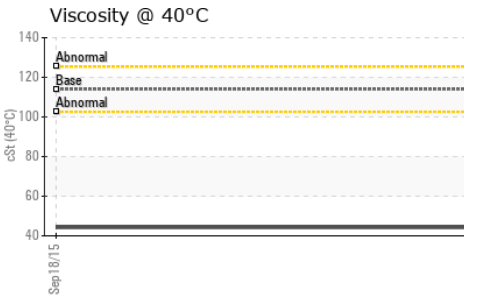
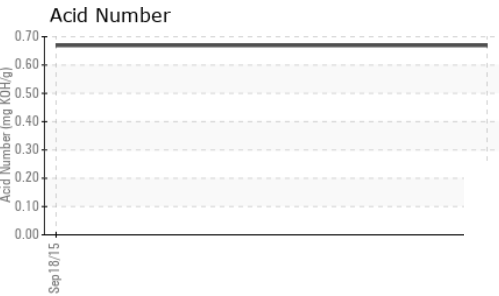
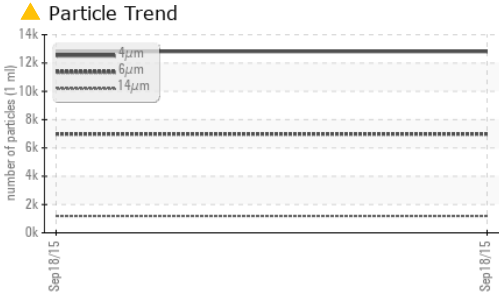
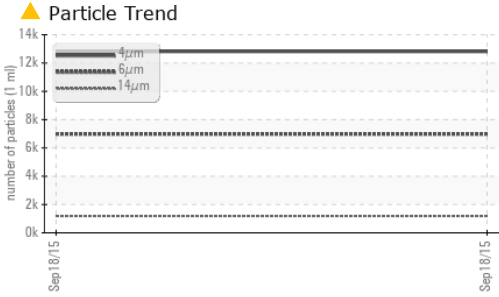
method	limit/base	current	history 1	history 2		
Particles >4µm	ASTM D7647			<b>12817</b>	---	---
Particles >6µm	ASTM D7647	>2500	▲	<b>6982</b>	---	---
Particles >14µm	ASTM D7647	>640	▲	<b>1189</b>	---	---
Particles >21µm	ASTM D7647	>160	▲	<b>401</b>	---	---
Particles >38µm	ASTM D7647	>40	▲	<b>61</b>	---	---
Particles >71µm	ASTM D7647	>10		<b>6</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>--/18/16	▲	<b>21/20/17</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history 1	history 2		
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.669</b>	---	---



# OIL ANALYSIS REPORT

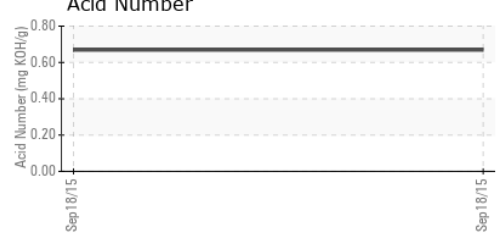
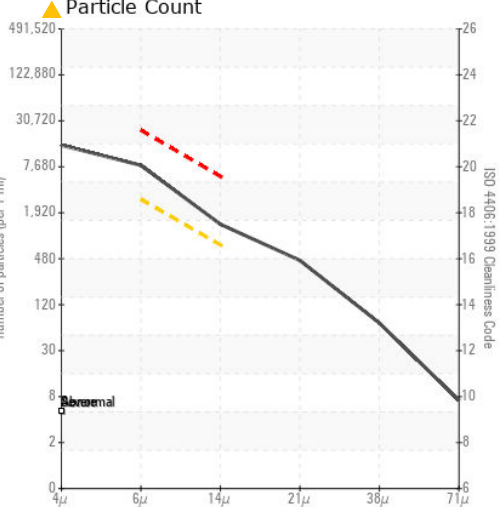
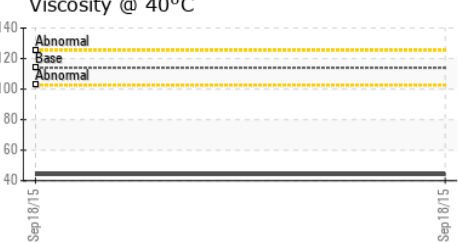
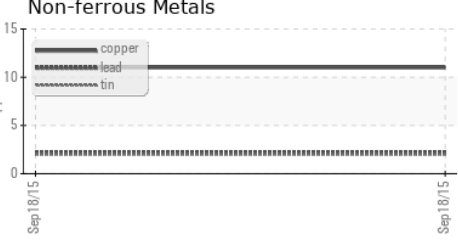
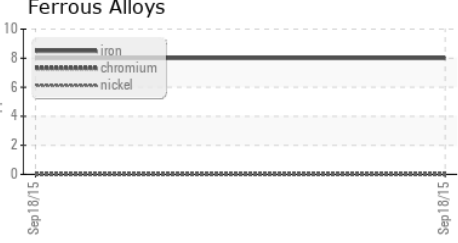


VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	---
Free Water	scalar	*Visual		<b>NEG</b>	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	114	<b>44.23</b>	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color				no image	no image
Bottom				no image	no image

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WCMCF21124 **Received** : 09 Oct 2015  
**Lab Number** : 03840357 **Diagnosed** : 13 Oct 2015  
**Unique Number** : 7165553 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: DOUG KING  
 doug.king@sherwood.net  
 T: (316)617-3161  
 F: x:

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)