



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**KANSAS/88/EG - SKID STEER**  
 Machine Id  
**53.184L [KANSAS^88^EG - SKID STEER]**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL MOBILTRANS AST 30 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### 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>WC0832427</b>	---	---
Sample Date	Client Info	<b>23 Oct 2023</b>	---	---
Machine Age	hrs Client Info	<b>4</b>	---	---
Oil Age	hrs Client Info	<b>4</b>	---	---
Oil Changed	Client Info	<b>Not Chngd</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---
Chromium ppm ASTM D5185m	>10	<b>&lt;1</b>	---	---
Nickel ppm ASTM D5185m	>10	<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>0</b>	---	---
Copper ppm ASTM D5185m	>75	<b>3</b>	---	---
Tin ppm ASTM D5185m	>10	<b>&lt;1</b>	---	---
Vanadium ppm ASTM D5185m		<b>0</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		<b>0</b>	---	---
Barium ppm ASTM D5185m		<b>20</b>	---	---
Molybdenum ppm ASTM D5185m		<b>&lt;1</b>	---	---
Manganese ppm ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium ppm ASTM D5185m		<b>1</b>	---	---
Calcium ppm ASTM D5185m		<b>146</b>	---	---
Phosphorus ppm ASTM D5185m		<b>711</b>	---	---
Zinc ppm ASTM D5185m		<b>871</b>	---	---
Sulfur ppm ASTM D5185m		<b>2147</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---
Sodium ppm ASTM D5185m		<b>2</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>0</b>	---	---

## FLUID CLEANLINESS

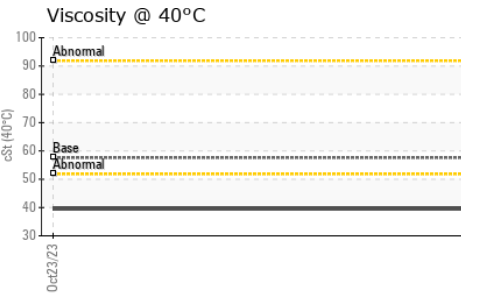
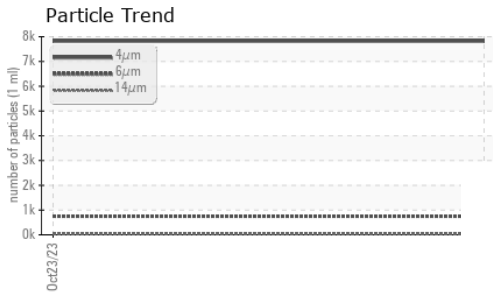
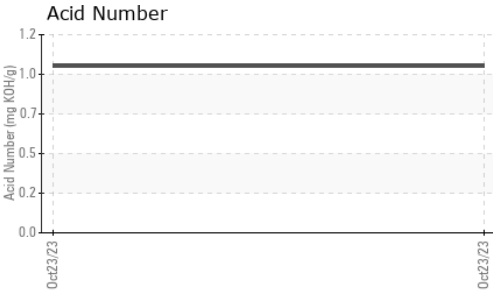
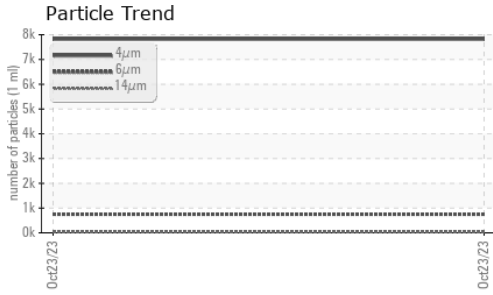
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647		<b>7825</b>	---	---
Particles >6µm ASTM D7647	>2500	<b>750</b>	---	---
Particles >14µm ASTM D7647	>640	<b>24</b>	---	---
Particles >21µm ASTM D7647	>160	<b>5</b>	---	---
Particles >38µm ASTM D7647	>40	<b>1</b>	---	---
Particles >71µm ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)	>--/18/16	<b>20/17/12</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		<b>1.01</b>	---	---



# OIL ANALYSIS REPORT



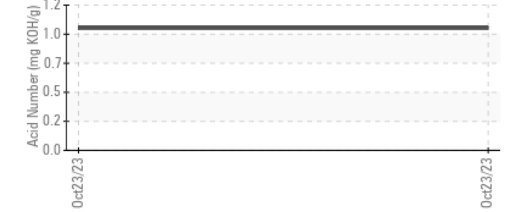
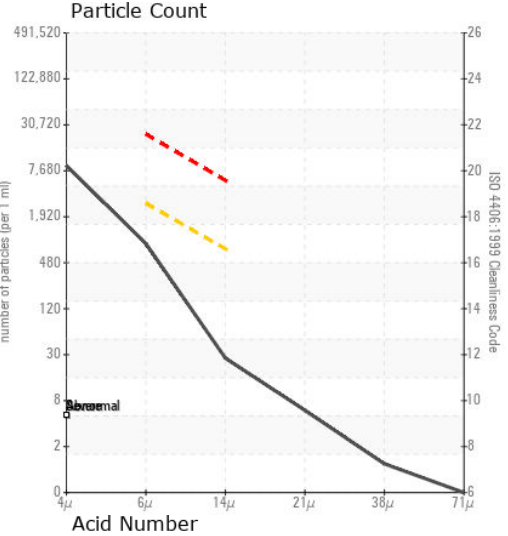
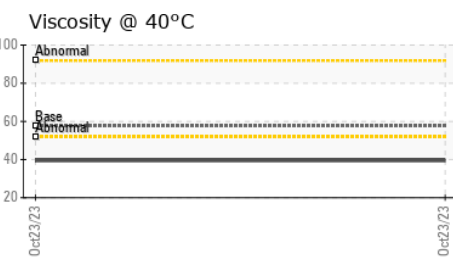
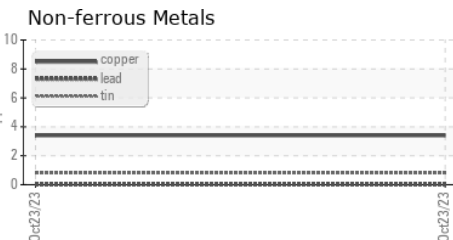
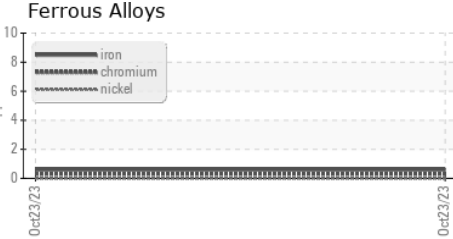
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.6	39.5	---

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

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0832427 Received : 31 Oct 2023  
 Lab Number : 05994258 Diagnosed : 01 Nov 2023  
 Unique Number : 10722618 Diagnostician : Don Baldrige  
 Test Package : CONST

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: BILL ORCUTT  
 william.orcutt@wildcat.net

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)

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F: