

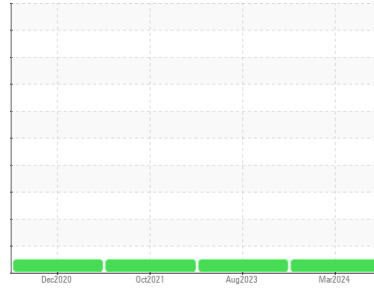


# OIL ANALYSIS REPORT



Area  
**KANSAS/44/EG - LOADER**  
 Machine Id  
**45.51L [KANSAS^44^EG - LOADER]**  
 Component  
**Rear Differential**  
 Fluid  
**MOBIL MOBILTRANS HD 30 (9 GAL)**

### Sample Rating Trend



**NORMAL**



### 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 oil.

#### Fluid Condition

The condition of the oil is acceptable for the time in service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0901186</b>	WC0789764	WC0621156
Sample Date	Client Info		<b>28 Mar 2024</b>	28 Aug 2023	21 Oct 2021
Machine Age	hrs	Client Info	<b>2779</b>	2412	981
Oil Age	hrs	Client Info	<b>1798</b>	1431	939
Oil Changed	Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	<b>228</b>	163	97
Chromium	ppm	ASTM D5185m	>3	<b>5</b>	4	3
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>3</b>	<1	1
Lead	ppm	ASTM D5185m	>13	<b>1</b>	<1	0
Copper	ppm	ASTM D5185m	>103	<b>6</b>	5	4
Tin	ppm	ASTM D5185m	>5	<b>1</b>	<1	0
Antimony	ppm	ASTM D5185m	>5	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1

### ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>109</b>	130	99
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>13</b>	10	5
Manganese	ppm	ASTM D5185m		<b>8</b>	6	4
Magnesium	ppm	ASTM D5185m		<b>10</b>	9	8
Calcium	ppm	ASTM D5185m		<b>3327</b>	3331	3782
Phosphorus	ppm	ASTM D5185m		<b>1106</b>	1117	1212
Zinc	ppm	ASTM D5185m		<b>1352</b>	1380	1453
Sulfur	ppm	ASTM D5185m		<b>4524</b>	4205	5405

### CONTAMINANTS

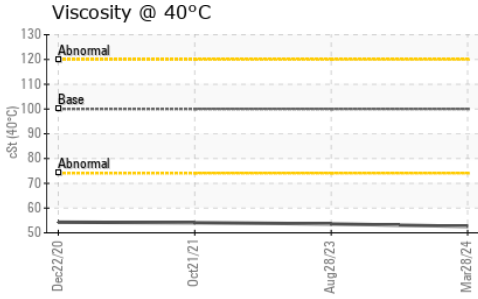
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>100	<b>19</b>	15	13
Sodium	ppm	ASTM D5185m		<b>15</b>	17	15
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	11

### VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG



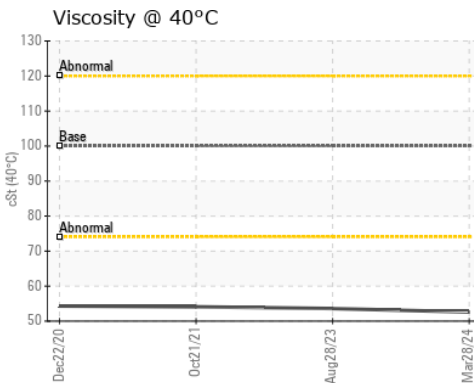
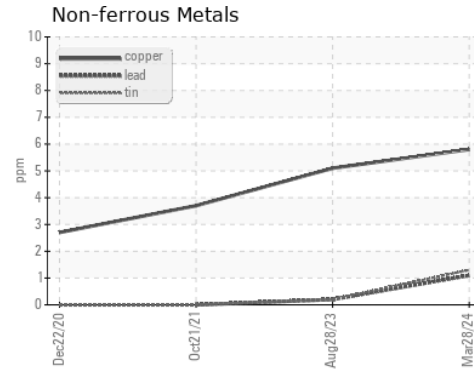
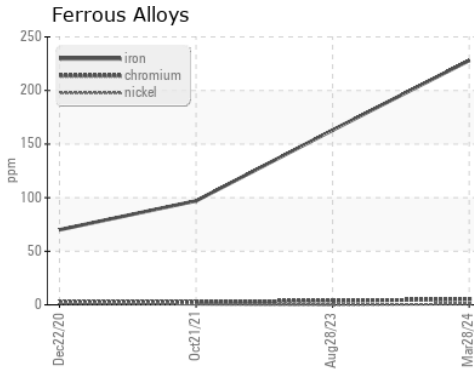
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100	<b>52.6</b>	53.6	54.1

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0901186  
**Lab Number** : 06138915  
**Unique Number** : 10963723  
**Test Package** : CONST

**Received** : 04 Apr 2024  
**Tested** : 05 Apr 2024  
**Diagnosed** : 06 Apr 2024 - Don Baldrige

**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)