

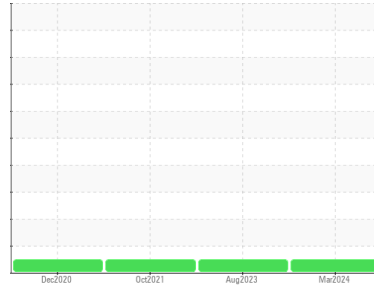


# OIL ANALYSIS REPORT



Area  
**KANSAS/44/EG - LOADER**  
 Machine Id  
**45.51L [KANSAS^44^EG - LOADER]**  
 Component  
**Front 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>WC0901184</b>	WC0789763	WC0621155
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>189</b>	94	56
Chromium	ppm	ASTM D5185m	>3	<b>3</b>	2	2
Nickel	ppm	ASTM D5185m	>3	<b>10</b>	8	5
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	<1
Copper	ppm	ASTM D5185m	>103	<b>6</b>	6	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

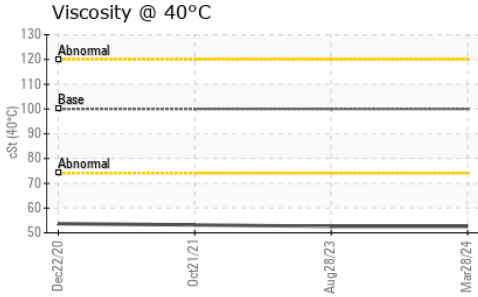
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>107</b>	130	100
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>12</b>	9	4
Manganese	ppm	ASTM D5185m		<b>6</b>	4	3
Magnesium	ppm	ASTM D5185m		<b>10</b>	8	9
Calcium	ppm	ASTM D5185m		<b>3300</b>	3389	3698
Phosphorus	ppm	ASTM D5185m		<b>1115</b>	1125	1180
Zinc	ppm	ASTM D5185m		<b>1370</b>	1397	1432
Sulfur	ppm	ASTM D5185m		<b>4906</b>	4290	6335

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	<b>15</b>	11	11
Sodium	ppm	ASTM D5185m		<b>14</b>	16	14
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	7

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>MODER</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



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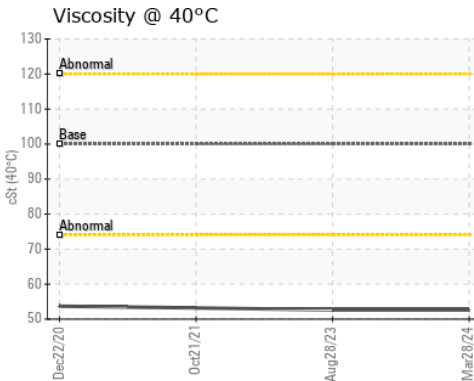
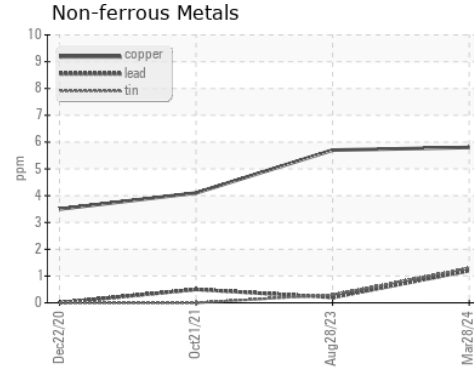
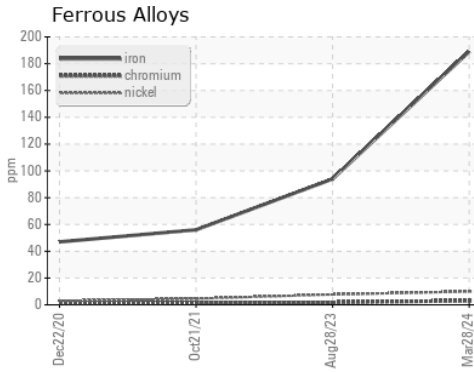


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 100	52.6	52.6	53.2

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0901184  
**Lab Number** : 06138917  
**Unique Number** : 10963725  
**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)