



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**OKLAHOMA/102/EG - SKID STEER**  
Machine Id  
**53.148L [OKLAHOMA^102^EG - SKID STEER]**  
Component  
**Left Final Drive**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: 2119 hrs )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0649177</b>	WC0603148	WC0560381
Sample Date		Client Info		<b>03 May 2022</b>	10 Sep 2021	18 Jun 2021
Machine Age	hrs	Client Info		<b>2119</b>	1616	1295
Oil Age	hrs	Client Info		<b>1136</b>	1136	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>800	<b>519</b>	341	287
Chromium	ppm	ASTM D5185m	>10	<b>7</b>	6	5
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	>15	<b>1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>75	<b>21</b>	5	5
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>75	<b>5</b>	8	4
Tin	ppm	ASTM D5185m	>8	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

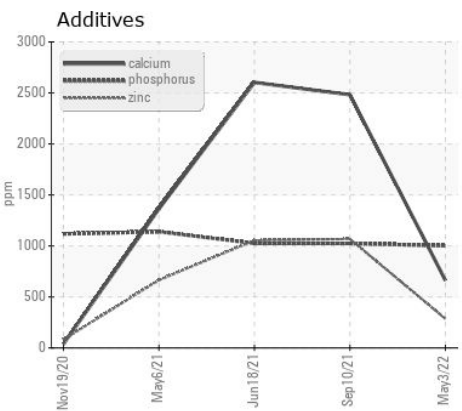
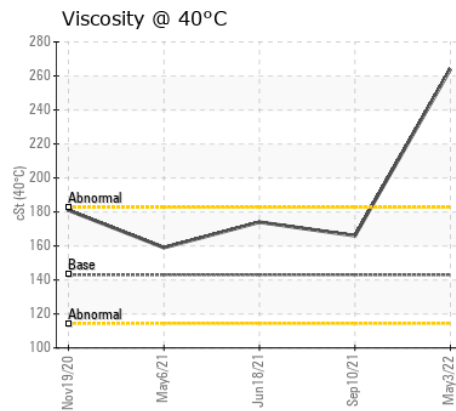
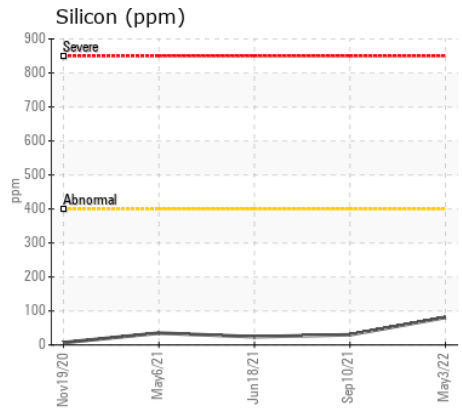
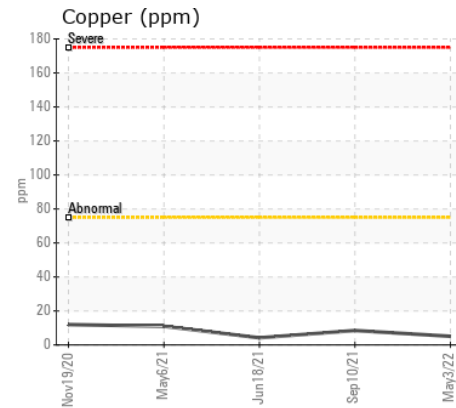
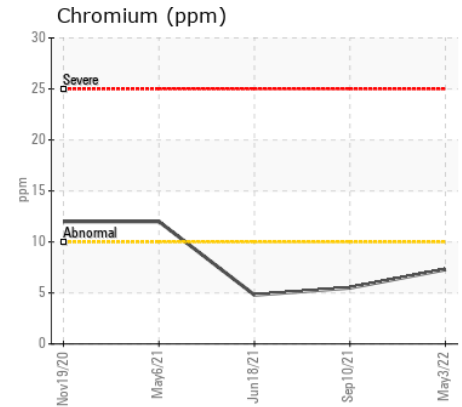
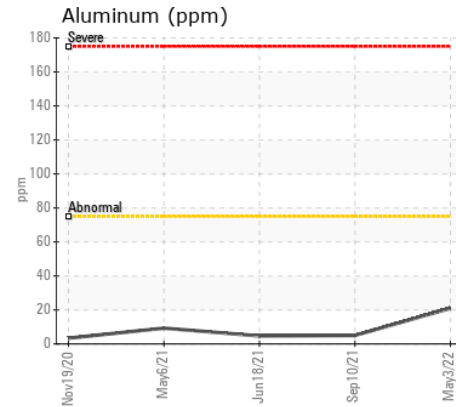
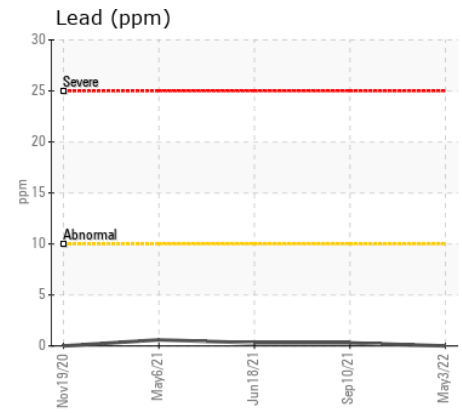
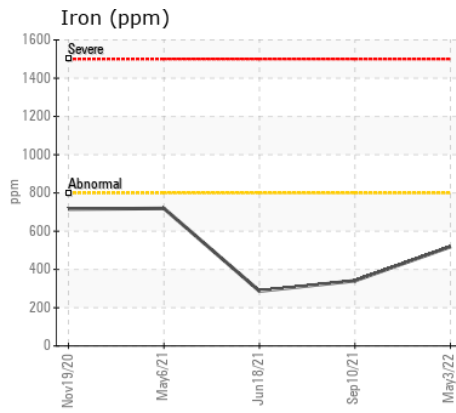
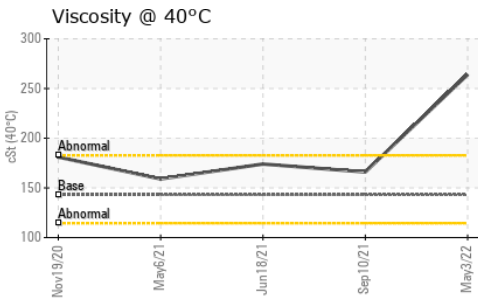
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>400	<b>81</b>	30	24
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	6	4
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
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	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	<b>5</b>	6	8
Boron	ppm	ASTM D5185m	400	<b>132</b>	63	116
Barium	ppm	ASTM D5185m	200	<b>0</b>	3	0
Molybdenum	ppm	ASTM D5185m	12	<b>3</b>	2	2
Manganese	ppm	ASTM D5185m		<b>5</b>	3	2
Magnesium	ppm	ASTM D5185m	12	<b>20</b>	22	24
Calcium	ppm	ASTM D5185m	150	<b>663</b>	2482	2603
Phosphorus	ppm	ASTM D5185m	1650	<b>1002</b>	1025	1025
Zinc	ppm	ASTM D5185m	125	<b>286</b>	1068	1054
Sulfur	ppm	ASTM D5185m	22500	<b>21110</b>	11303	11534
Visc @ 40°C	cSt	ASTM D445	143	<b>264</b>	166	174



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0649177

Lab Number : 05540506

Unique Number : 9969796

Test Package : MOBCE

Received : 10 May 2022

Tested : 11 May 2022

Diagnosed : 11 May 2022 - Don Baldrige

**SHERWOOD CONSTRUCTION CO INC**

3219 WEST MAY ST

WICHITA, KS

US 67213

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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)