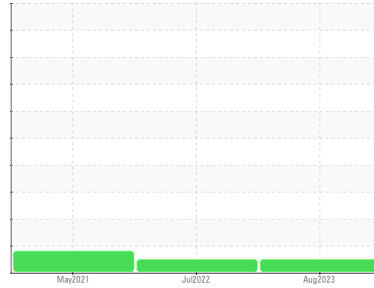




# OIL ANALYSIS REPORT

Area  
**CONSTRUCTORS, INC**  
 Machine Id  
**CATERPILLAR 131708**  
 Component  
**Front Left Final Drive**  
 Fluid  
**MOBIL DELVAC 1 SYNTHETIC GEAR SAE 75W90 (--- 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>SBP0004751</b>	SBP0001458	SBP39168007
Sample Date	Client Info		<b>11 Aug 2023</b>	22 Jul 2022	17 May 2021
Machine Age	hrs	Client Info	<b>2831</b>	1717	564
Oil Age	hrs	Client Info	<b>1114</b>	573	564
Oil Changed	Client Info		<b>N/A</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	<b>113</b>	99	124
Chromium	ppm	ASTM D5185m >10	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185m >5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >75	<b>1</b>	1	3
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185m >75	<b>18</b>	22	30
Tin	ppm	ASTM D5185m >8	<b>&lt;1</b>	1	2
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>56</b>	134	28
Barium	ppm	ASTM D5185m	<b>0</b>	0	4
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185m	<b>2</b>	2	0
Magnesium	ppm	ASTM D5185m	<b>9</b>	6	6
Calcium	ppm	ASTM D5185m	<b>23</b>	14	26
Phosphorus	ppm	ASTM D5185m	<b>936</b>	680	378
Zinc	ppm	ASTM D5185m	<b>29</b>	15	22
Sulfur	ppm	ASTM D5185m	<b>18520</b>	18644	---

## CONTAMINANTS

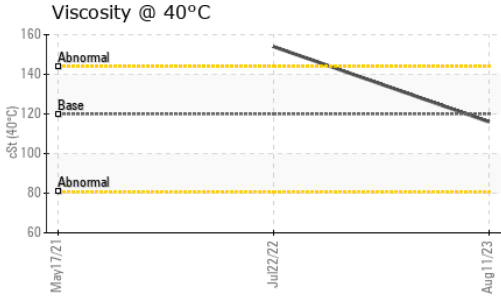
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	<b>6</b>	8	17
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	1
Potassium	ppm	ASTM D5185m >20	<b>1</b>	0	2
Chlorine	ppm	ASTM D5185m	<b>---</b>	---	0

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual >0.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual	<b>NEG</b>	NEG	---



# OIL ANALYSIS REPORT



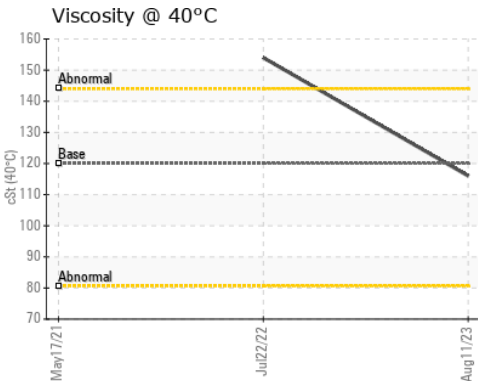
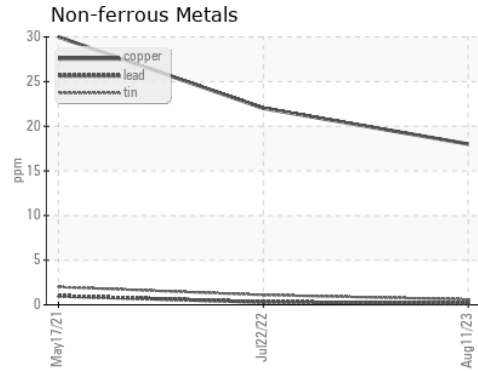
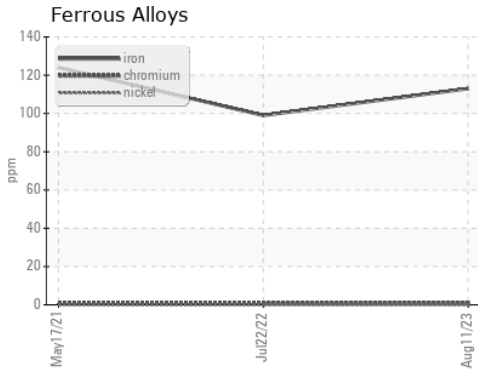
### FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D445	120	<b>116</b>	154	---

### 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.** : SBP0004751 **Received** : 14 Aug 2023  
**Lab Number** : **05924541** **Diagnosed** : 15 Aug 2023  
**Unique Number** : 10604488 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**Constructors Inc. - 603659**  
 1815 Y Street  
 Lincoln, NE  
 US 68508

Contact: Jack Linhart  
 jackl@constructorslincoln.com  
 T: (402)434-2157  
 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)