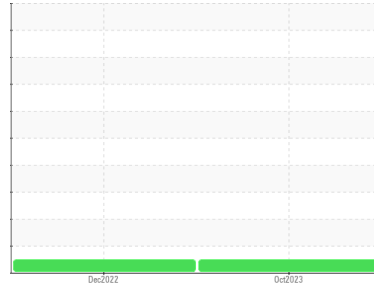




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**CONSTRUCTORS, INC**  
 Machine Id  
**VOLVO D13 SCR 121265**  
 Component  
**Rear Differential**  
 Fluid  
**TDH FLUID SAE 75W80 (--- GAL)**

## 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>SBP0004896</b>	SBP0002274	---
Sample Date	Client Info			<b>12 Oct 2023</b>	16 Dec 2022	---
Machine Age	hrs	Client Info		<b>10741</b>	8525	---
Oil Age	hrs	Client Info		<b>2216</b>	1820	---
Oil Changed	Client Info			<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>33</b>	33	---
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	<1	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>100	<b>&lt;1</b>	0	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	<b>112</b>	110	---
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	10	<b>3</b>	2	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	100	<b>47</b>	38	---
Calcium	ppm	ASTM D5185m	3500	<b>3265</b>	3461	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1036</b>	1094	---
Zinc	ppm	ASTM D5185m	1150	<b>1378</b>	1286	---
Sulfur	ppm	ASTM D5185m	5000	<b>4072</b>	4736	---

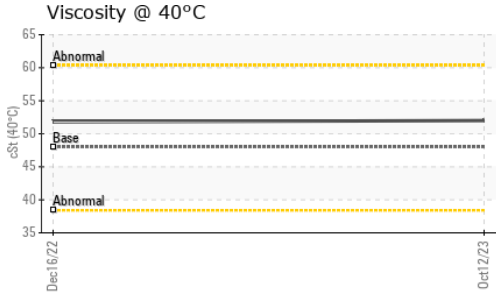
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>12</b>	12	---
Sodium	ppm	ASTM D5185m		<b>1</b>	7	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	---

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	>.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual		<b>NEG</b>	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	48	<b>52.0</b>	51.8	---

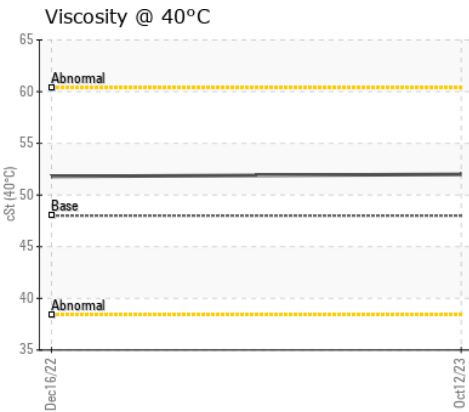
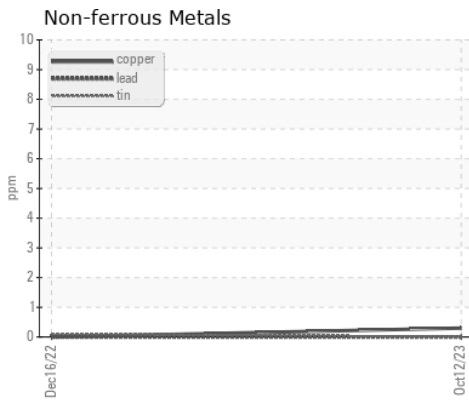
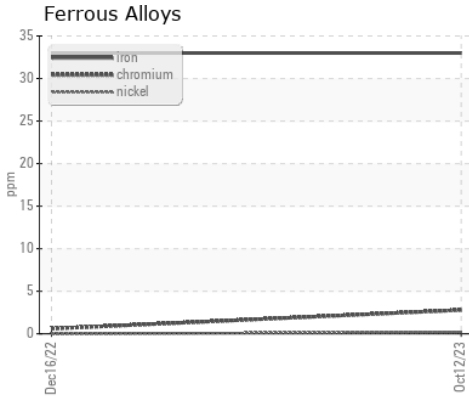


# OIL ANALYSIS REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
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.** : SBP0004896 **Received** : 16 Oct 2023  
**Lab Number** : 05980769 **Diagnosed** : 18 Oct 2023  
**Unique Number** : 10698064 **Diagnostician** : Don Baldridge  
**Test Package** : FLEET

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

Contact: Jack Linhart  
 jackl@constructorslincoln.com

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)

T: (402)434-2157

F: