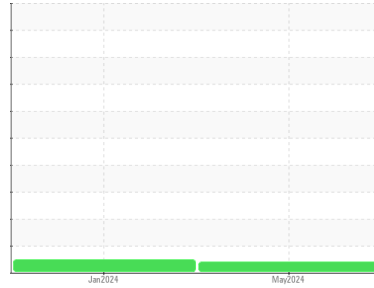


# OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id  
**VOLVO A45G 352353**  
 Component  
**Bogie/Center Axle**  
 Fluid  
**GEAR OIL SAE 80W90 (--- 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 oil viscosity is higher than normal. Confirm oil type.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>ML0001489</b>	VCP449044	---
Sample Date	Client Info		<b>29 May 2024</b>	22 Jan 2024	---
Machine Age	hrs	Client Info	<b>4893</b>	4155	---
Oil Age	hrs	Client Info	<b>4893</b>	0	---
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	---
Sample Status			<b>ATTENTION</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >900	<b>145</b>	166	---
Chromium	ppm	ASTM D5185m >20	<b>2</b>	2	---
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >30	<b>1</b>	2	---
Lead	ppm	ASTM D5185m >50	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m >150	<b>4</b>	3	---
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	<b>203</b>	216	---
Barium	ppm	ASTM D5185m 200	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 12	<b>3</b>	2	---
Manganese	ppm	ASTM D5185m	<b>6</b>	4	---
Magnesium	ppm	ASTM D5185m 12	<b>2</b>	2	---
Calcium	ppm	ASTM D5185m 150	<b>74</b>	56	---
Phosphorus	ppm	ASTM D5185m 1650	<b>1212</b>	1162	---
Zinc	ppm	ASTM D5185m 125	<b>41</b>	23	---
Sulfur	ppm	ASTM D5185m 22500	<b>34124</b>	29080	---

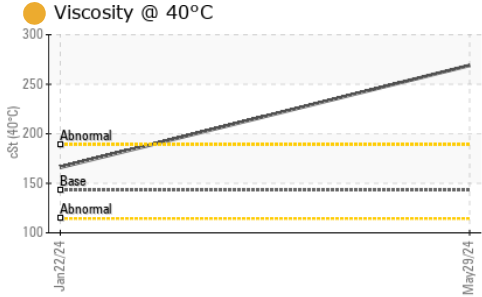
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>12</b>	10	---
Sodium	ppm	ASTM D5185m >170	<b>0</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>3</b>	3	---

## 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



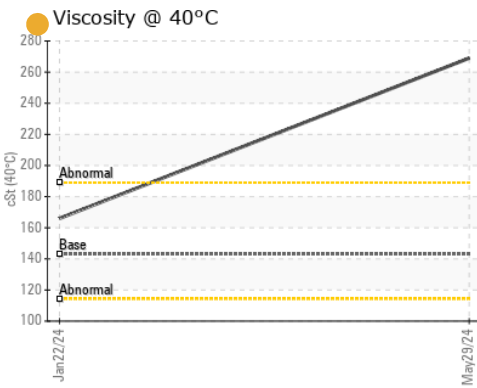
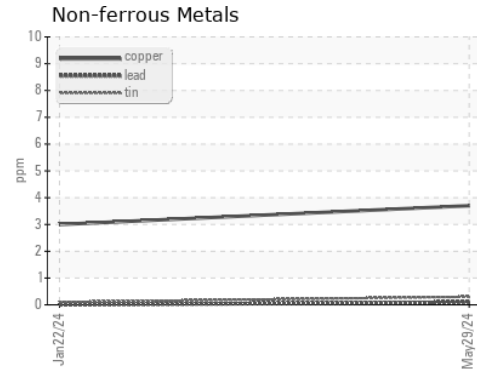
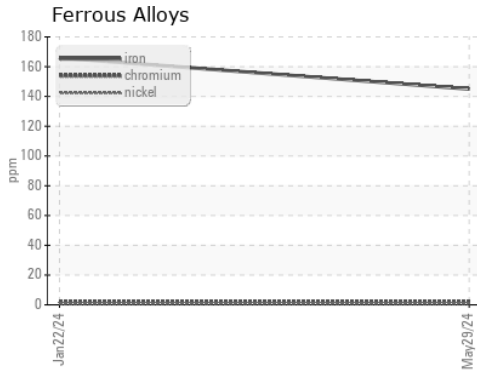
### FLUID PROPERTIES

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 143	● 269	166	---

### SAMPLE IMAGES

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.** : ML0001489  
**Lab Number** : 06198413  
**Unique Number** : 11060536  
**Test Package** : CONST

**Received** : 03 Jun 2024  
**Tested** : 04 Jun 2024  
**Diagnosed** : 05 Jun 2024 - Don Baldrige

**McCLUNG-LOGAN EQUIPMENT CO - RICHMOND**  
 1345 MOUNTAIN ROAD  
 GLEN ALLEN, VA  
 US 23060  
 Contact: KYLE RATLIFFE  
 KRATLIFFE@McCLUNG-LOGAN.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: (804)266-1611