



THE G. W. VAN KEPPEL CO.  
Construction Equipment

# OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO L90H 31526 (S/N 625492)**  
Component  
**Front Axle**  
Fluid  
**VOLVO WB 102 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VKC0000993</b>	VKC0000688	---
Sample Date		Client Info		<b>12 Apr 2024</b>	16 Jun 2023	---
Machine Age	hrs	Client Info		<b>7243</b>	5182	---
Oil Age	hrs	Client Info		<b>0</b>	5182	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>47</b>	116	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	4	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	3	---
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>120	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

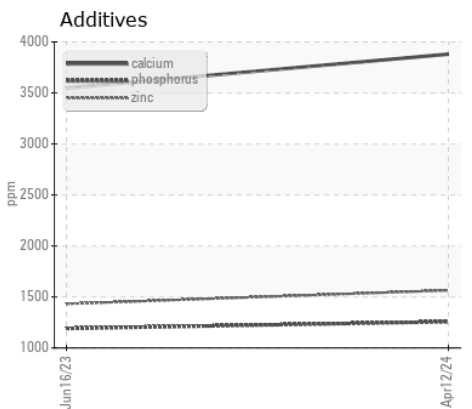
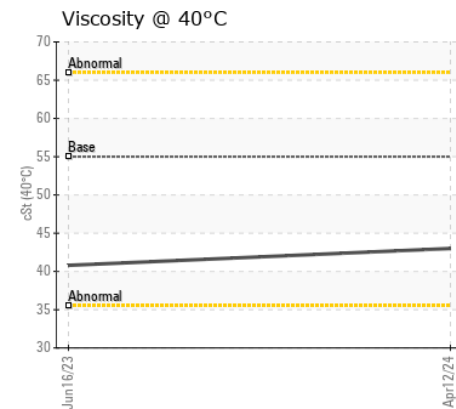
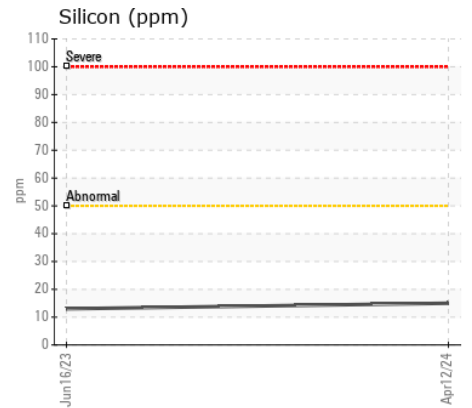
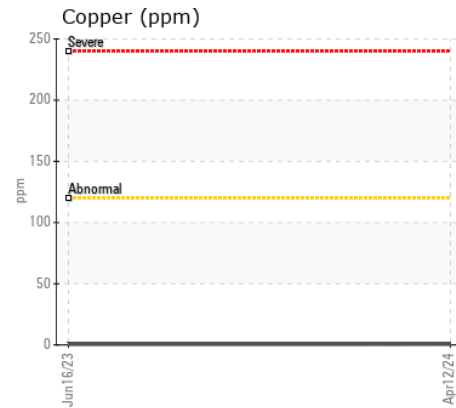
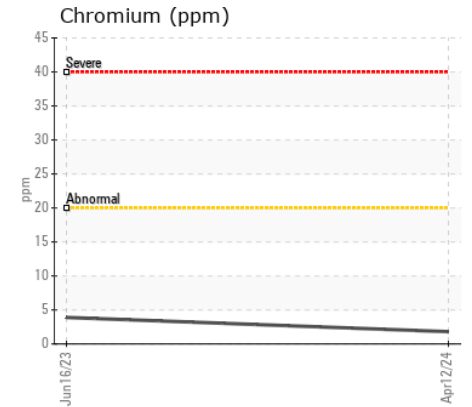
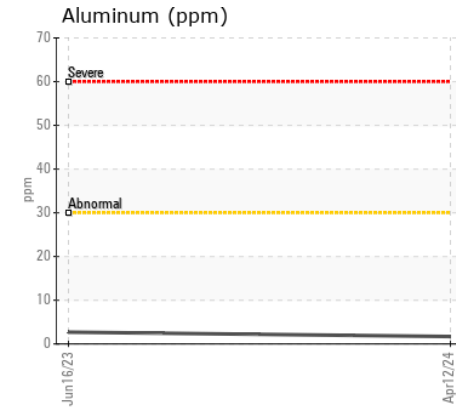
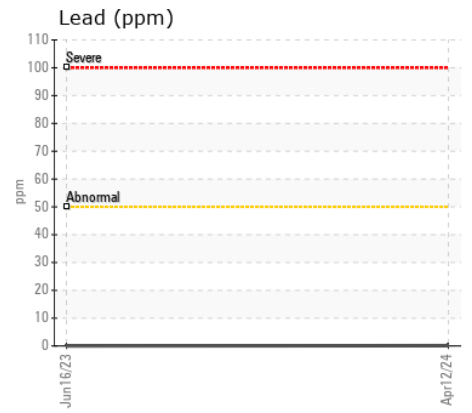
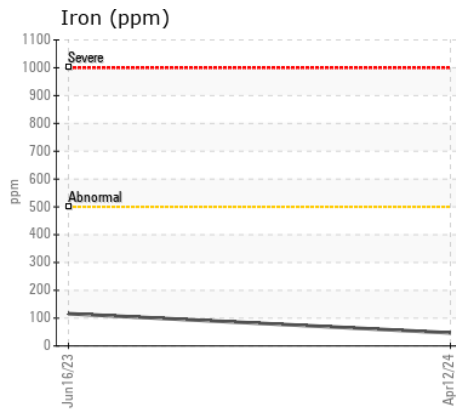
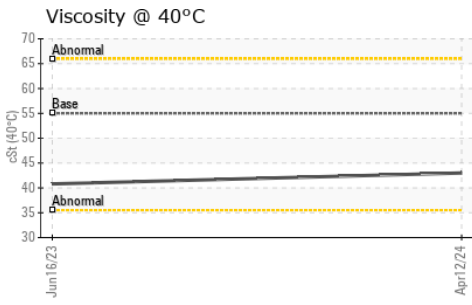
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>15</b>	13	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>MODER</b>	MODER	---
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	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>2</b>	11	---
Boron	ppm	ASTM D5185m		<b>131</b>	130	---
Barium	ppm	ASTM D5185m		<b>0</b>	4	---
Molybdenum	ppm	ASTM D5185m		<b>4</b>	12	---
Manganese	ppm	ASTM D5185m		<b>3</b>	10	---
Magnesium	ppm	ASTM D5185m		<b>14</b>	14	---
Calcium	ppm	ASTM D5185m		<b>3880</b>	3548	---
Phosphorus	ppm	ASTM D5185m		<b>1257</b>	1191	---
Zinc	ppm	ASTM D5185m		<b>1565</b>	1432	---
Sulfur	ppm	ASTM D5185m		<b>3831</b>	4193	---
Visc @ 40°C	cSt	ASTM D445	55	<b>43.0</b>	40.8	---



Certificate L2367

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

**Sample No.** : VKC0000993

**Lab Number** : 06153849

**Unique Number** : 10989272

**Test Package** : MOBCE

**Received** : 18 Apr 2024

**Tested** : 23 Apr 2024

**Diagnosed** : 23 Apr 2024 - Wes Davis

**GW VAN KEPPEL CO**

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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)