



# VOLVO

## OIL ANALYSIS REPORT



Area  
**[X12132]**  
 Machine Id  
**VOLVO A25G 752414**  
 Component  
**Drop Box**  
 Fluid  
**VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)**

WEAR	<b>SEVERE</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>ATTENTION</b>

### RECOMMENDATION

We advise that you inspect for the source(s) of wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VC224832</b>	VC407761	---
Sample Date		Client Info		<b>06 Sep 2022</b>	08 Jun 2022	---
Machine Age	hrs	Client Info		<b>373</b>	125	---
Oil Age	hrs	Client Info		<b>0</b>	125	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	---
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	---
Sample Status				<b>SEVERE</b>	NORMAL	---

### WEAR

Moderate concentration of visible metal present. Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	<b>▲ 487</b>	151	---
Chromium	ppm	ASTM D5185m	>20	<b>7</b>	2	---
Nickel	ppm	ASTM D5185m	>10	<b>3</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>30	<b>▲ 82</b>	25	---
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	1	---
Copper	ppm	ASTM D5185m	>30	<b>5</b>	5	---
Tin	ppm	ASTM D5185m	>20	<b>1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>▲ MODER</b>	MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

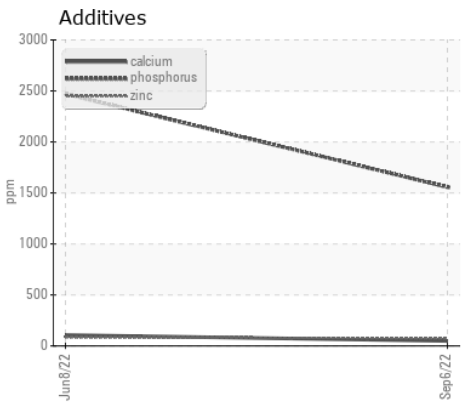
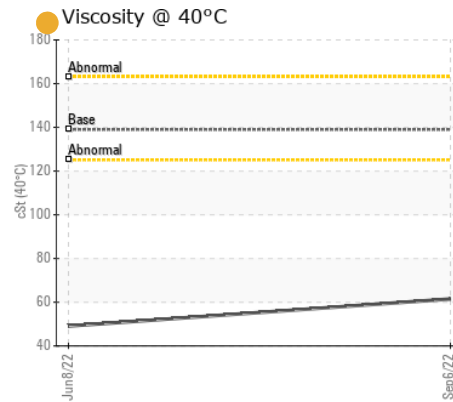
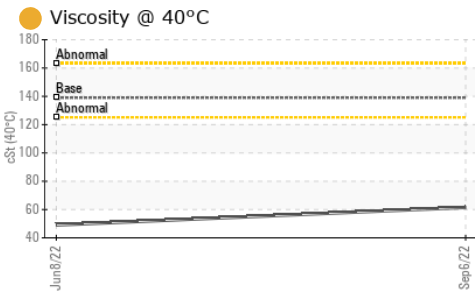
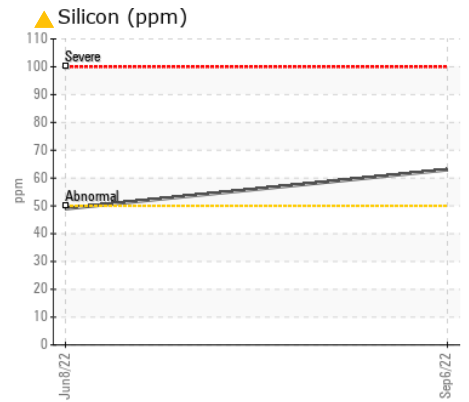
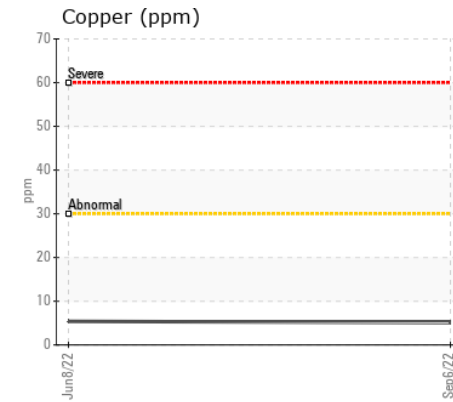
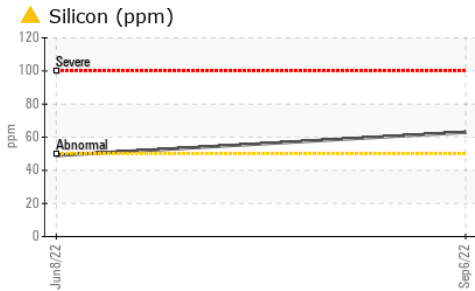
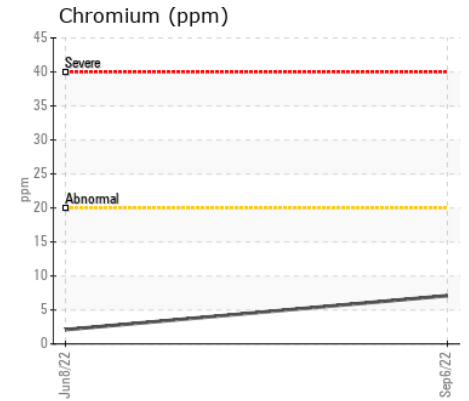
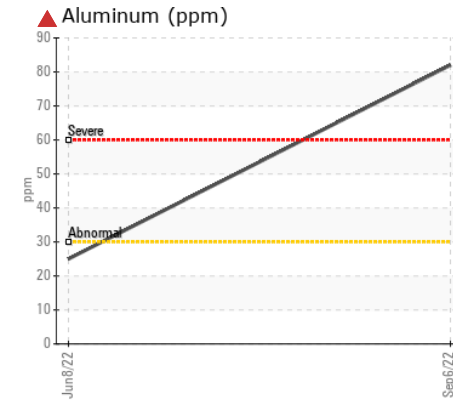
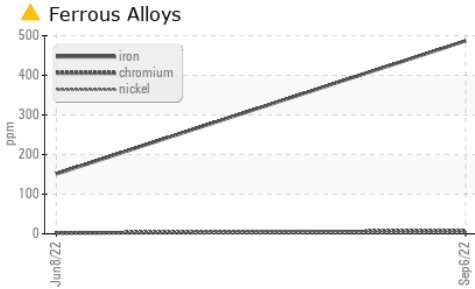
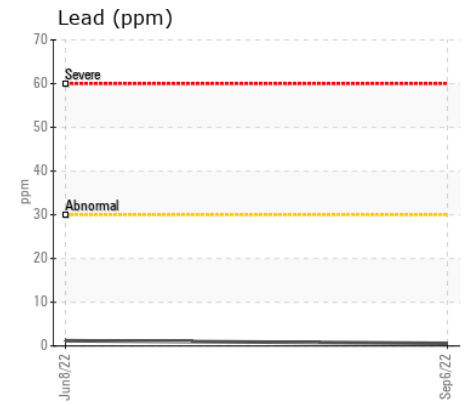
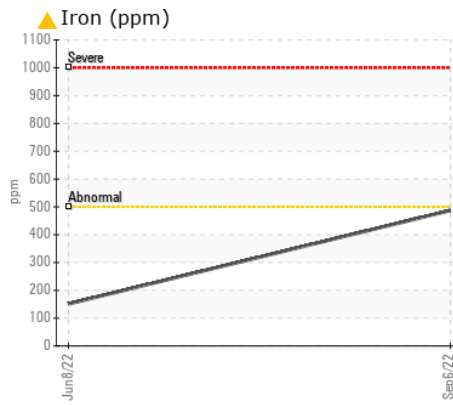
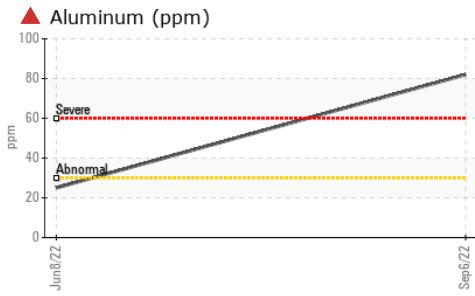
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>50	<b>▲ 63</b>	49	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
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	---

### FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>9</b>	6	---
Boron	ppm	ASTM D5185m	379	<b>78</b>	197	---
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0.8	<b>36</b>	15	---
Manganese	ppm	ASTM D5185m	0.0	<b>9</b>	3	---
Magnesium	ppm	ASTM D5185m	31	<b>5</b>	0	---
Calcium	ppm	ASTM D5185m	38	<b>49</b>	107	---
Phosphorus	ppm	ASTM D5185m	1077	<b>1557</b>	2471	---
Zinc	ppm	ASTM D5185m	46	<b>74</b>	85	---
Sulfur	ppm	ASTM D5185m	23526	<b>8240</b>	25056	---
Visc @ 40°C	cSt	ASTM D445	139	<b>● 61.5</b>	49.1	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VC224832  
**Lab Number** : 05643151  
**Unique Number** : 10137690  
**Test Package** : MOBCE

**Received** : 15 Sep 2022  
**Tested** : 19 Sep 2022  
**Diagnosed** : 19 Sep 2022 - Don Baldrige

**113 - ASCENDUM MACHINERY INC - GARNER**  
 3561 JONES SAUSAGE ROAD  
 GARNER, NC  
 US 27529

Contact: TRENT BROADWELL  
 trent.broadwell@ascendummachinery.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)

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