



# VOLVO

## OIL ANALYSIS REPORT

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



Area

**[608826]**

Machine Id

**VOLVO A40D 70043**

Component

**Bogie/Center Axle**

Fluid

**VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP449857</b>	VCP1771999	VCP187303
Sample Date		Client Info		<b>22 May 2024</b>	26 Feb 2016	17 Jul 2015
Machine Age	hrs	Client Info		<b>15722</b>	8568	7897
Oil Age	hrs	Client Info		<b>0</b>	2000	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>550	<b>98</b>	81	63
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>13</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>75	<b>4</b>	3	2
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

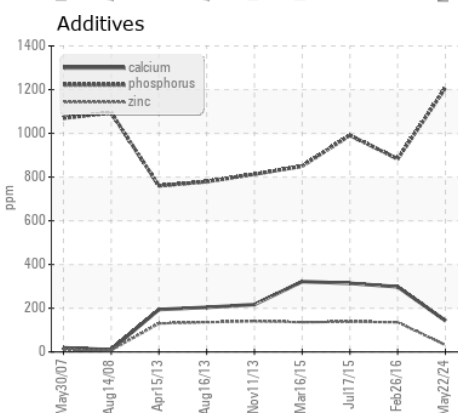
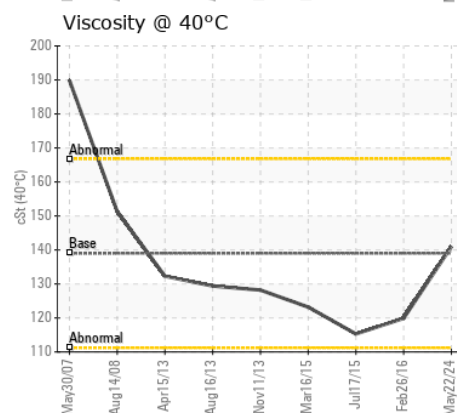
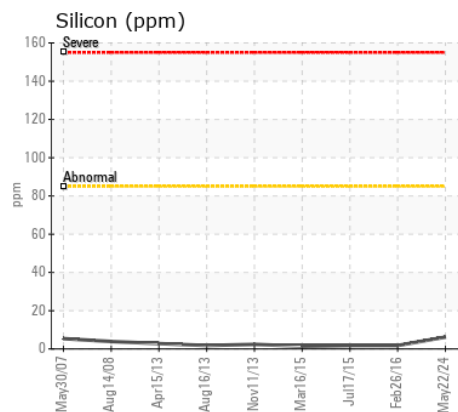
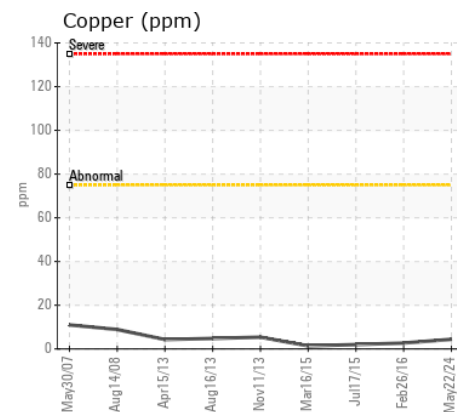
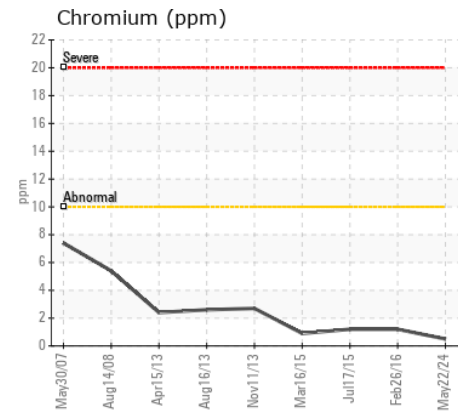
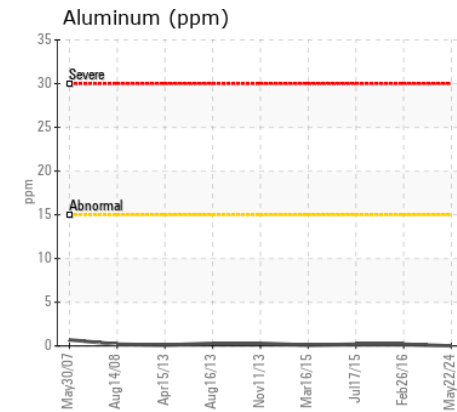
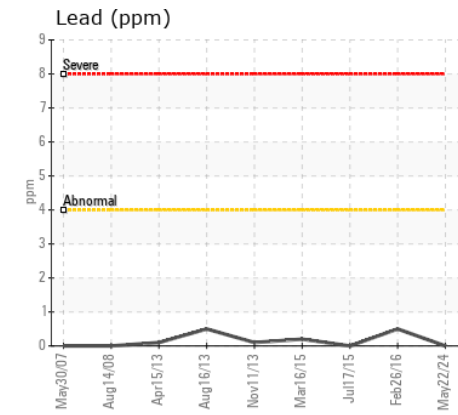
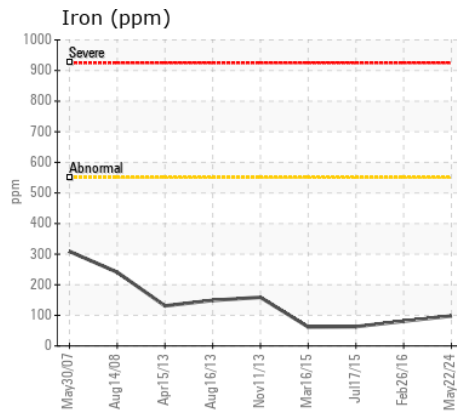
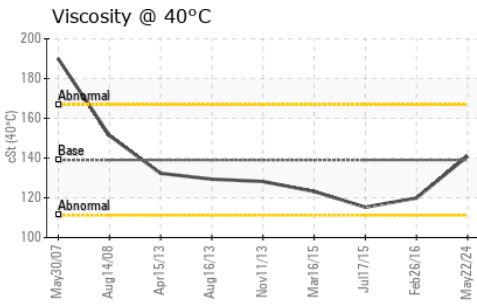
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m	>85	<b>6</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	<1	0
Boron	ppm	ASTM D5185m	379	<b>64</b>	108	109
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.8	<b>0</b>	3	4
Manganese	ppm	ASTM D5185m	0.0	<b>1</b>	1	1
Magnesium	ppm	ASTM D5185m	31	<b>15</b>	19	17
Calcium	ppm	ASTM D5185m	38	<b>143</b>	298	314
Phosphorus	ppm	ASTM D5185m	1077	<b>1208</b>	883	991
Zinc	ppm	ASTM D5185m	46	<b>32</b>	136	138
Sulfur	ppm	ASTM D5185m	23526	<b>28535</b>	20722	26365
Visc @ 40°C	cSt	ASTM D445	139	<b>141</b>	119.9	115.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP449857 **Received** : 29 May 2024  
**Lab Number** : 06194383 **Tested** : 31 May 2024  
**Unique Number** : 11056506 **Diagnosed** : 31 May 2024 - Angela Borella  
**Test Package** : MOB 1

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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)