



# 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

**Front 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>VCP439191</b>	VCP177200	VCP187299
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	N/A
Filter Changed		Client Info		<b>N/A</b>	Not Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>550	<b>160</b>	46	38
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	<1	1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	4	3
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

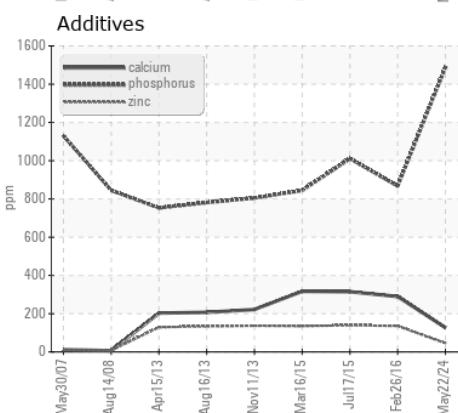
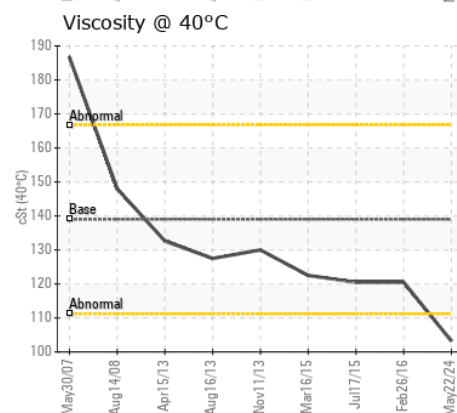
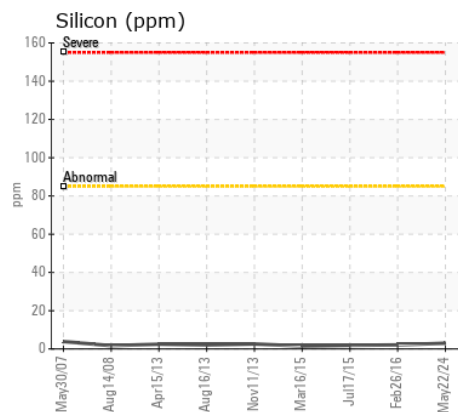
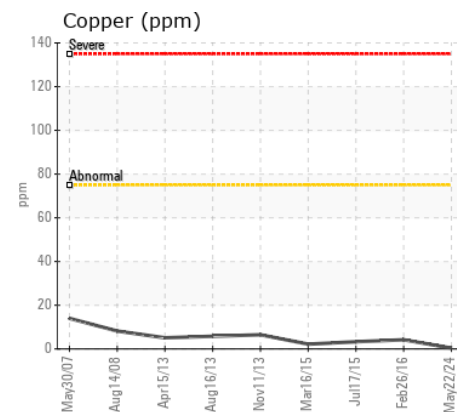
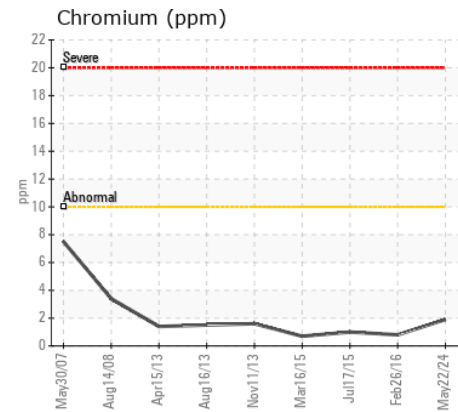
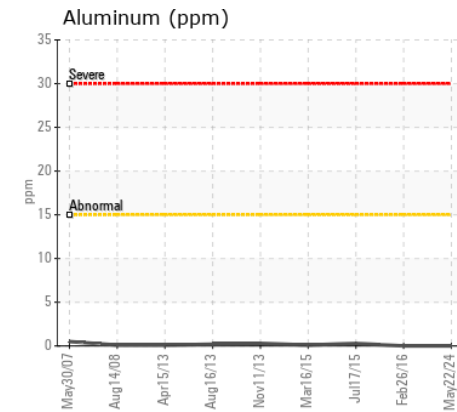
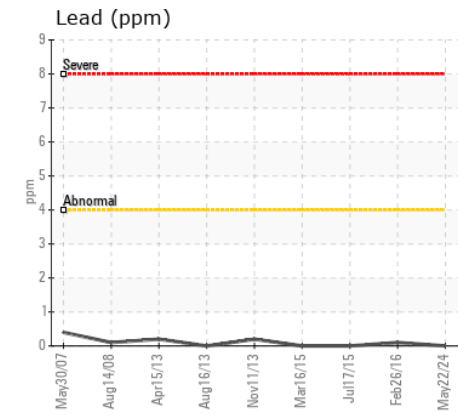
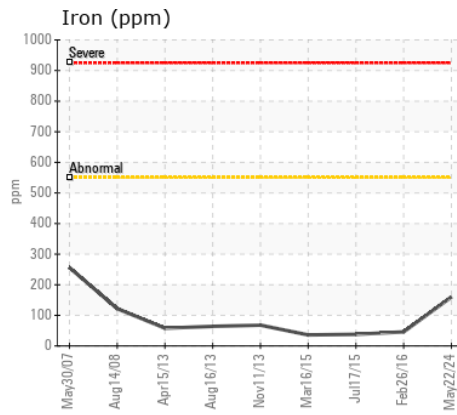
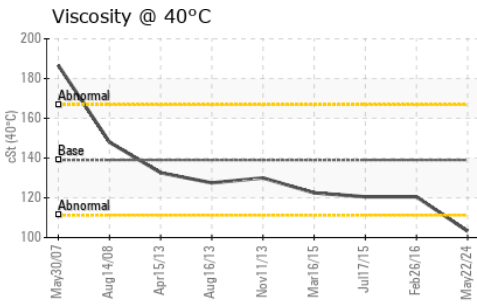
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m	>85	<b>3</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</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>2</b>	<1	<1
Boron	ppm	ASTM D5185m	379	<b>354</b>	106	108
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.8	<b>6</b>	3	3
Manganese	ppm	ASTM D5185m	0.0	<b>11</b>	1	1
Magnesium	ppm	ASTM D5185m	31	<b>0</b>	18	18
Calcium	ppm	ASTM D5185m	38	<b>127</b>	290	315
Phosphorus	ppm	ASTM D5185m	1077	<b>1487</b>	867	1011
Zinc	ppm	ASTM D5185m	46	<b>46</b>	136	139
Sulfur	ppm	ASTM D5185m	23526	<b>27944</b>	20200	26534
Visc @ 40°C	cSt	ASTM D445	139	<b>103.2</b>	120.5	120.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP439191 **Received** : 29 May 2024  
**Lab Number** : 06194385 **Tested** : 03 Jun 2024  
**Unique Number** : 11056508 **Diagnosed** : 03 Jun 2024 - Jonathan Hester  
**Test Package** : MOB 1

**BLENHAM CONSTRUCTION**  
 302 INDEPENDENCE BLVD  
 SICKLERVILLE, NJ  
 US 08081  
 Contact: KEN LARDI  
 klardi@blenheimconstruction.com  
 T: (856)728-8880  
 F: (856)728-8866

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)