



# VOLVO

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO A45G 752335**  
Component  
**Diesel Engine**  
Fluid  
**VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)**

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP451395</b>	VCP437736	---
Sample Date		Client Info		<b>24 Jun 2024</b>	06 Feb 2024	---
Machine Age	hrs	Client Info		<b>800</b>	56	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	N/A	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>13</b>	<1	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>2	<b>3</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>4</b>	2	---
Tin	ppm	ASTM D5185m	>15	<b>2</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

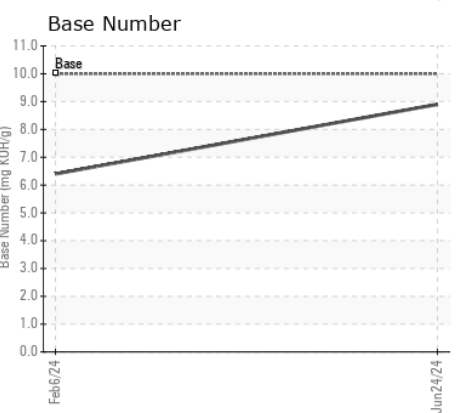
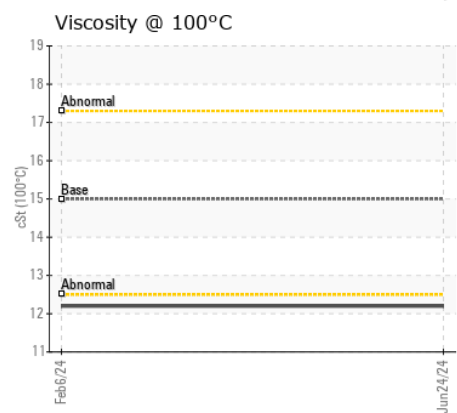
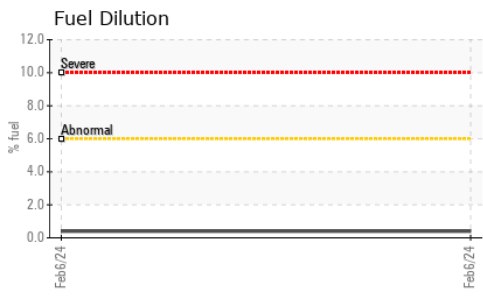
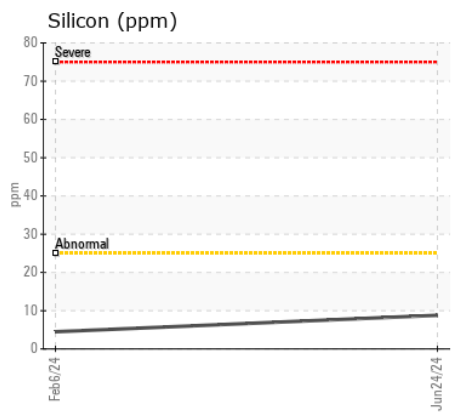
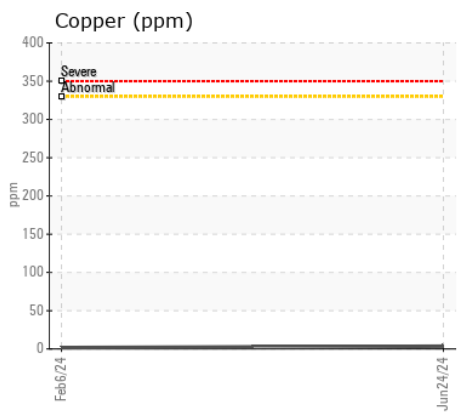
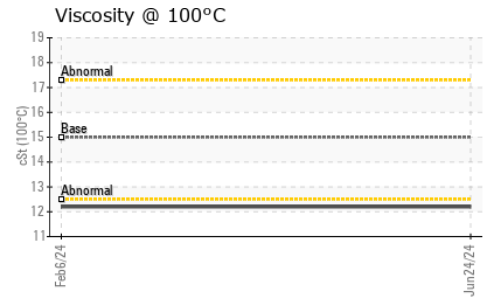
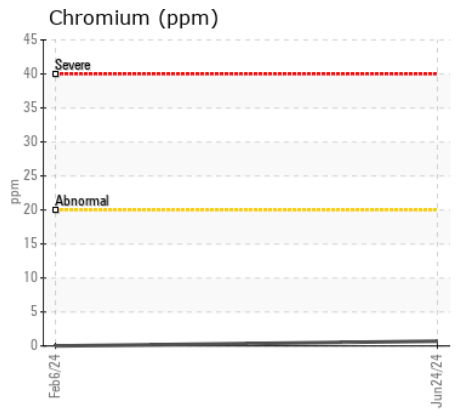
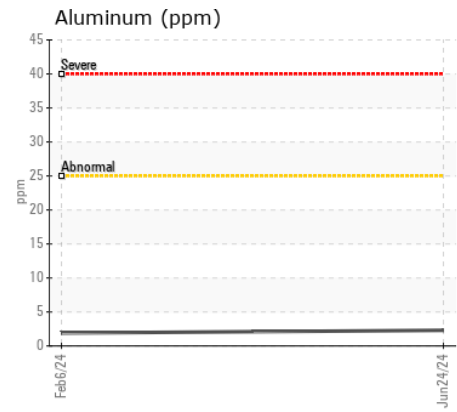
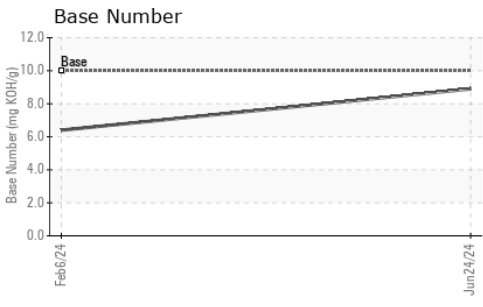
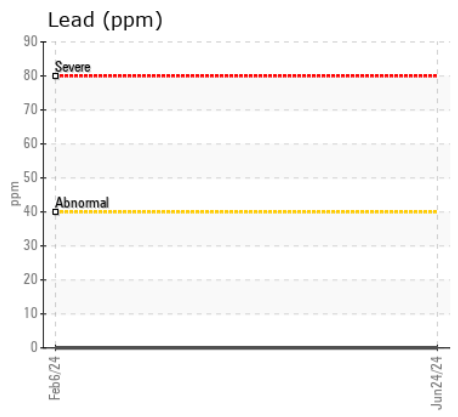
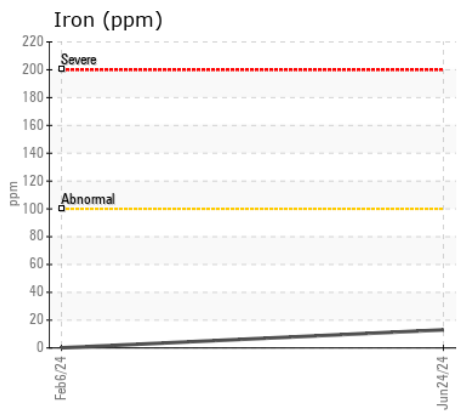
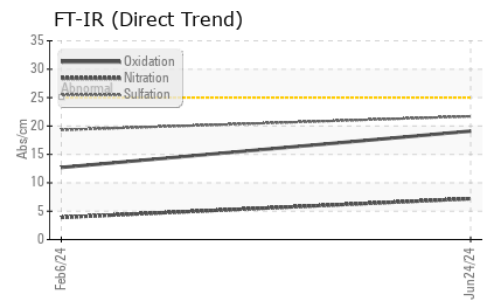
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>9</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	1	---
Fuel	%	ASTM D3524	>6.0	<b>&lt;1.0</b>	0.4	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.2</b>	3.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.7</b>	19.3	---
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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Boron	ppm	ASTM D5185m	2.5	<b>50</b>	306	---
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185m	0.7	<b>46</b>	65	---
Manganese	ppm	ASTM D5185m	0.0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	256	<b>465</b>	271	---
Calcium	ppm	ASTM D5185m	2057	<b>1566</b>	1072	---
Phosphorus	ppm	ASTM D5185m	935	<b>881</b>	874	---
Zinc	ppm	ASTM D5185m	1223	<b>1144</b>	1006	---
Sulfur	ppm	ASTM D5185m	4079	<b>2963</b>	2841	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.1</b>	12.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	<b>8.9</b>	6.4	---
Visc @ 100°C	cSt	ASTM D445	15.0	<b>12.2</b>	12.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP451395 **Received** : 26 Jun 2024  
**Lab Number** : 06220773 **Tested** : 27 Jun 2024  
**Unique Number** : 11098970 **Diagnosed** : 27 Jun 2024 - Angela Borella  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, TBN )

**ALTA EQUIPMENT COMPANY**  
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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)