



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[659479]**  
 Machine Id  
**VOLVO A30G 753089**  
 Component  
**Diesel Engine**  
 Fluid  
**VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP413241</b>	VCP431466	---
Sample Date		Client Info		<b>11 Jan 2024</b>	01 Nov 2023	---
Machine Age	hrs	Client Info		<b>1134</b>	896	---
Oil Age	hrs	Client Info		<b>0</b>	400	---
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>	ABNORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>11</b>	10	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>6</b>	2	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>20	<b>13</b>	▲ 64	---
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</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

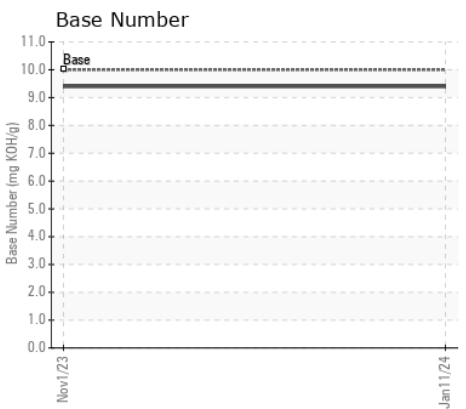
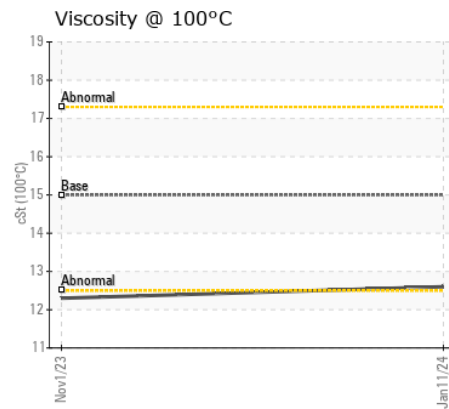
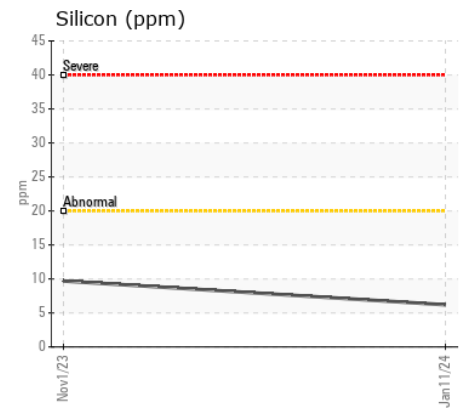
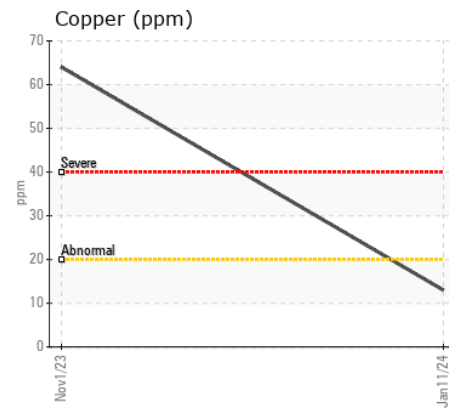
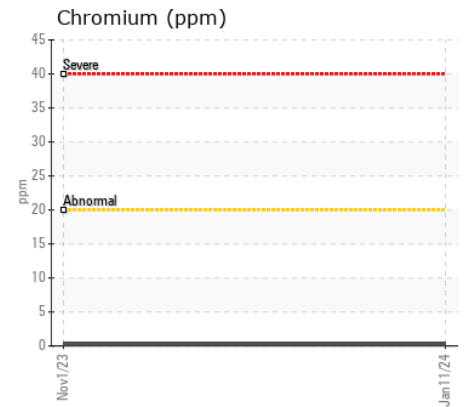
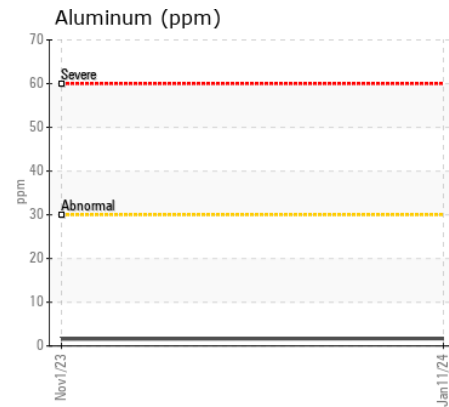
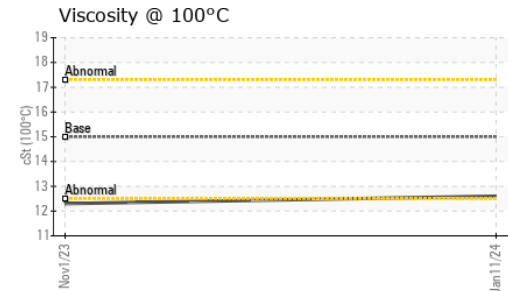
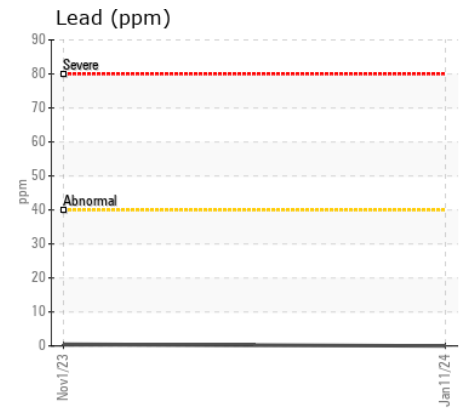
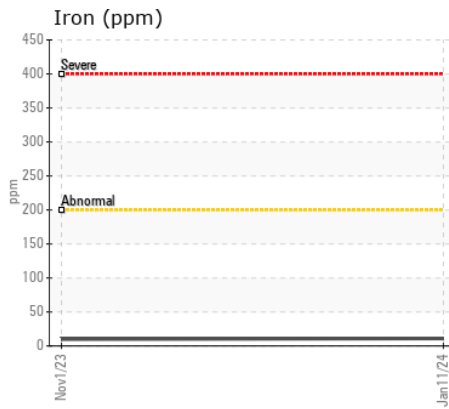
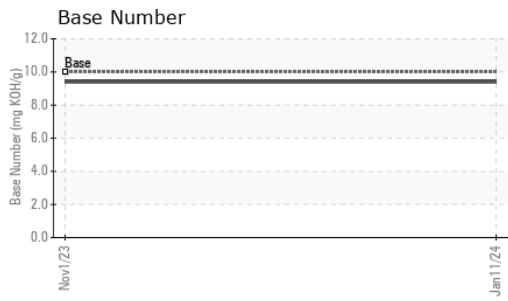
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>6</b>	10	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	0.2	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.1</b>	7.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.1</b>	21.9	---
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 suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	0	---
Boron	ppm	ASTM D5185m	2.5	<b>43</b>	41	---
Barium	ppm	ASTM D5185m	0.0	<b>3</b>	5	---
Molybdenum	ppm	ASTM D5185m	0.7	<b>47</b>	51	---
Manganese	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m	256	<b>544</b>	428	---
Calcium	ppm	ASTM D5185m	2057	<b>1693</b>	1637	---
Phosphorus	ppm	ASTM D5185m	935	<b>940</b>	991	---
Zinc	ppm	ASTM D5185m	1223	<b>1168</b>	1064	---
Sulfur	ppm	ASTM D5185m	4079	<b>3354</b>	3080	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.7</b>	18.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	<b>9.4</b>	9.4	---
Visc @ 100°C	cSt	ASTM D445	15.0	<b>12.6</b>	▲ 12.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP413241 **Received** : 18 Jan 2024  
**Lab Number** : 06063965 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10835347 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**JON M HALL COMPANY**  
 1920 BOOTHE CIRCLE SUITE 110  
 LONGWOOD, FL  
 US 32750  
 Contact: SERVICE MANAGER

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)

T: (407)215-0410

F: