



# ASCENDUM

## OIL ANALYSIS REPORT

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



Area  
**Indian Trail, NC #803**  
Machine Id  
**VOLVO L30G L30GS3224649**  
Component  
**Diesel Engine**  
Fluid  
**VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0007442</b>	ASC0005499	---
Sample Date		Client Info		<b>08 Feb 2024</b>	09 Oct 2023	---
Machine Age	hrs	Client Info		<b>3580</b>	2958	---
Oil Age	hrs	Client Info		<b>622</b>	2958	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>6</b>	6	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	<1	---
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185m	>10	<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

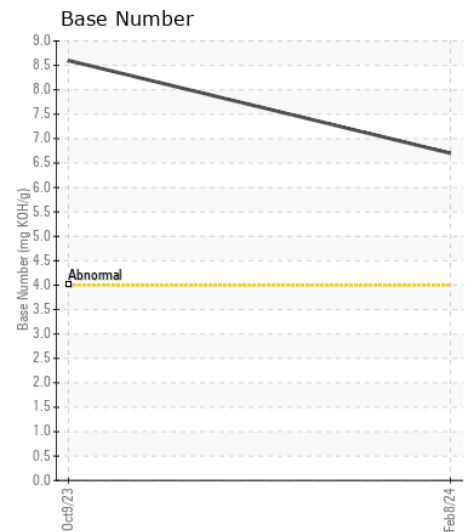
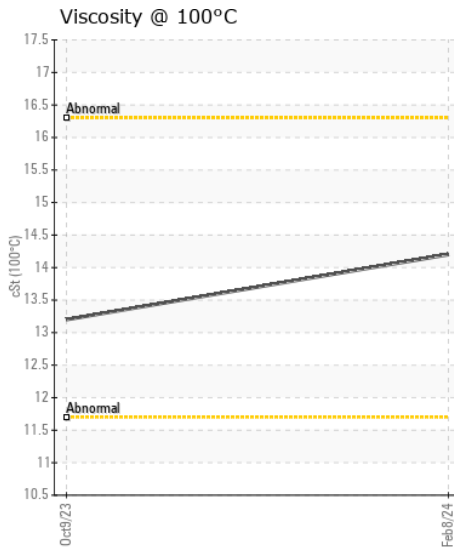
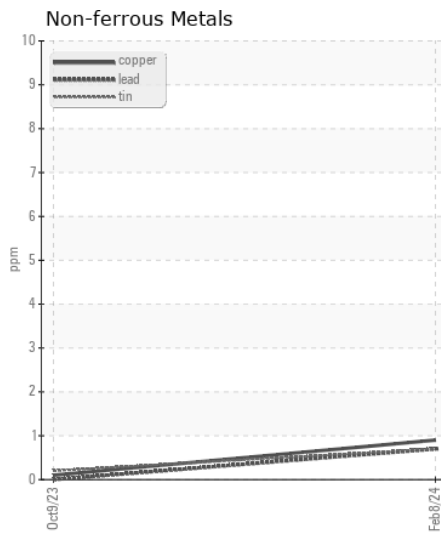
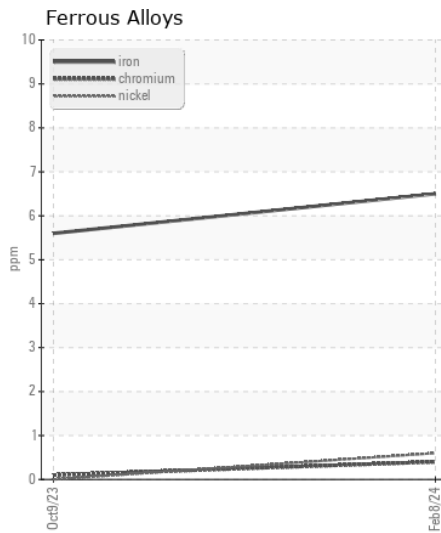
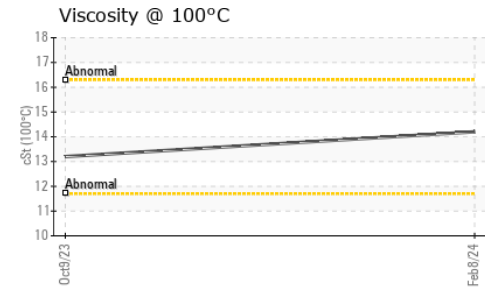
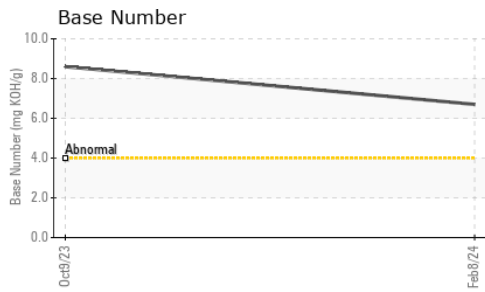
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>4</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	0	---
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.4</b>	7.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.0</b>	18.6	---
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	>0.1	<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>	2	---
Boron	ppm	ASTM D5185m		<b>94</b>	42	---
Barium	ppm	ASTM D5185m		<b>13</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>26</b>	63	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>213</b>	796	---
Calcium	ppm	ASTM D5185m		<b>1905</b>	1355	---
Phosphorus	ppm	ASTM D5185m		<b>969</b>	1044	---
Zinc	ppm	ASTM D5185m		<b>1134</b>	1312	---
Sulfur	ppm	ASTM D5185m		<b>3672</b>	3282	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.4</b>	14.6	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.7</b>	8.6	---
Visc @ 100°C	cSt	ASTM D445		<b>14.2</b>	13.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : ASC0007442

**Lab Number** : 06085693

**Unique Number** : 10873138

**Test Package** : CONST ( Additional Tests: TBN )

**Received** : 12 Feb 2024

**Tested** : 12 Feb 2024

**Diagnosed** : 13 Feb 2024 - Jonathan Hester

**SITEONE LANDSCAPE SUPPLY LLC**

300 COLONIAL CENTER PKWY, SUITE 600

ROSWELL, GA

US 30076

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)

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F: