



# ASCENDUM

## OIL ANALYSIS REPORT

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

Area

**Gastonia, NC #732**

Machine Id

**VOLVO L30GS L30GS3224600**

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>ASC0008261</b>	VCP0006431	---
Sample Date		Client Info		<b>11 Jul 2024</b>	04 Apr 2023	---
Machine Age	hrs	Client Info		<b>4145</b>	2292	---
Oil Age	hrs	Client Info		<b>1853</b>	2292	---
Filter Age	hrs	Client Info		<b>0</b>	2292	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>15</b>	11	---
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>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>4</b>	<1	---
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>15	<b>6</b>	▲ 109	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

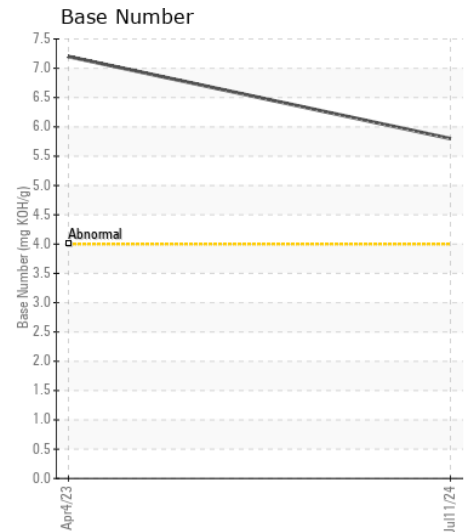
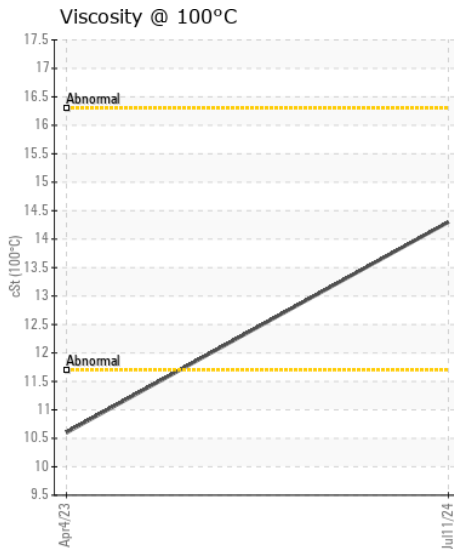
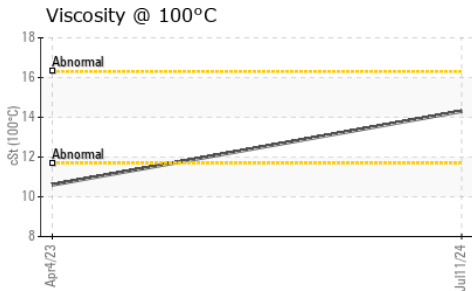
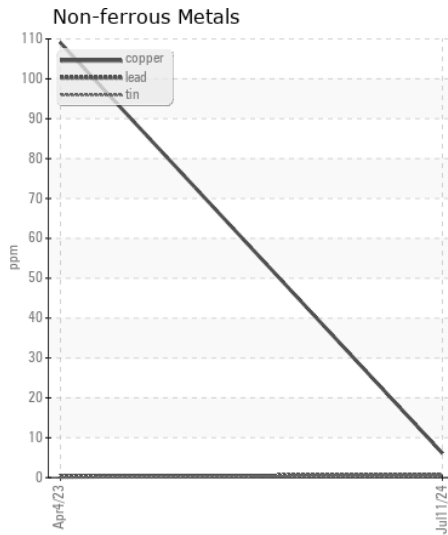
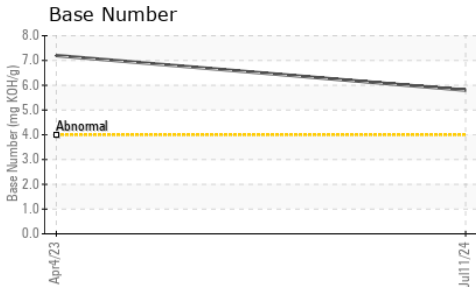
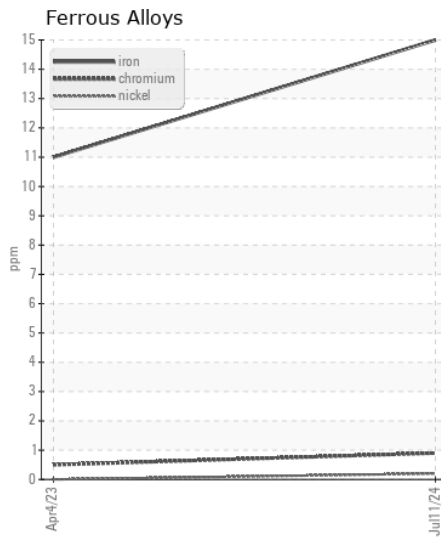
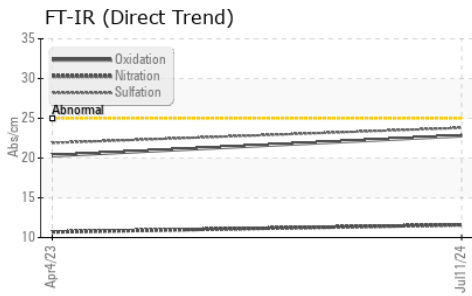
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>6</b>	12	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	---
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	0.2	---
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>11.6</b>	10.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.8</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	>0.1	<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>8</b>	2	---
Boron	ppm	ASTM D5185m		<b>28</b>	150	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>62</b>	97	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>469</b>	520	---
Calcium	ppm	ASTM D5185m		<b>1843</b>	1516	---
Phosphorus	ppm	ASTM D5185m		<b>994</b>	785	---
Zinc	ppm	ASTM D5185m		<b>1223</b>	1058	---
Sulfur	ppm	ASTM D5185m		<b>3045</b>	3088	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.8</b>	20.3	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.8</b>	7.2	---
Visc @ 100°C	cSt	ASTM D445		<b>14.3</b>	● 10.6	---



Certificate L2367

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

**Sample No.** : ASC0008261

**Lab Number** : 06239828

**Unique Number** : 11128662

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

**Received** : 18 Jul 2024

**Tested** : 18 Jul 2024

**Diagnosed** : 18 Jul 2024 - Wes Davis

**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: