



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[BRYSON PARK]**  
Machine Id  
**VOLVO L70H 624445**  
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>VCP354361</b>	---	---
Sample Date		Client Info		<b>10 Aug 2022</b>	---	---
Machine Age	hrs	Client Info		<b>512</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

### WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>200	<b>36</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>9</b>	---	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>30	<b>51</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>2</b>	---	---
Copper	ppm	ASTM D5185m	>20	<b>8</b>	---	---
Tin	ppm	ASTM D5185m	>20	<b>3</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

### CONTAMINATION

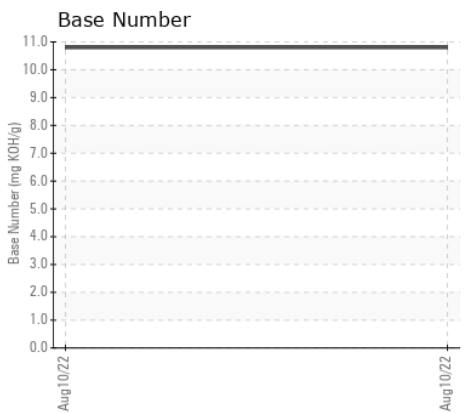
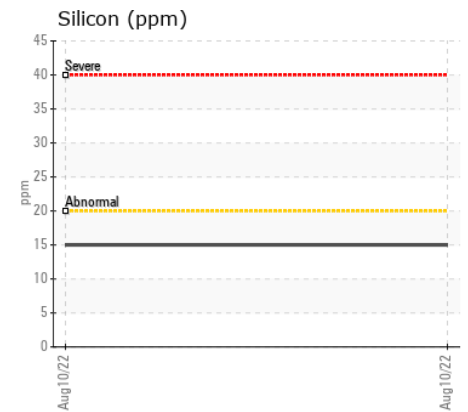
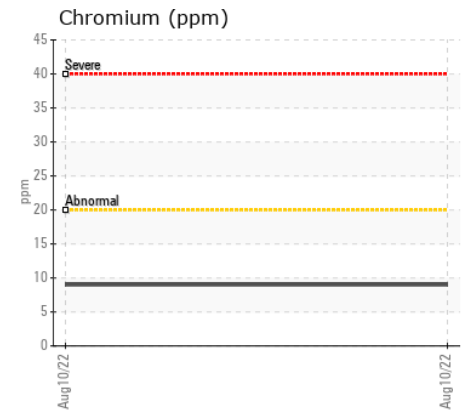
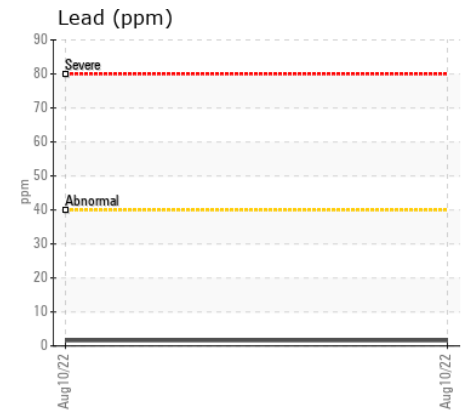
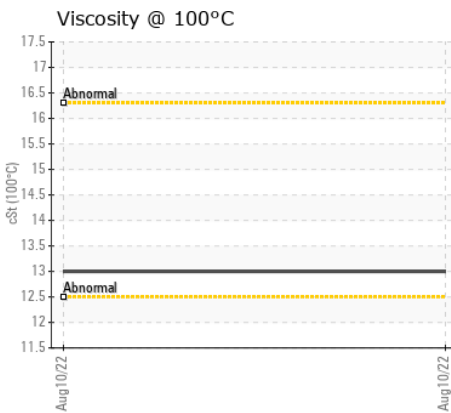
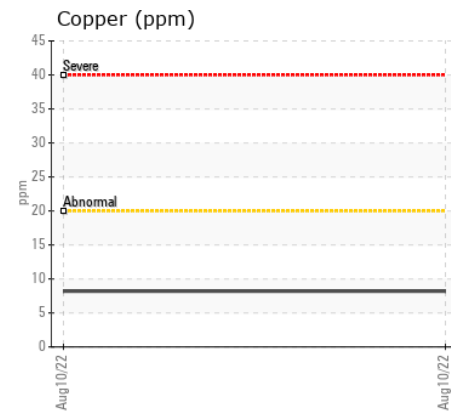
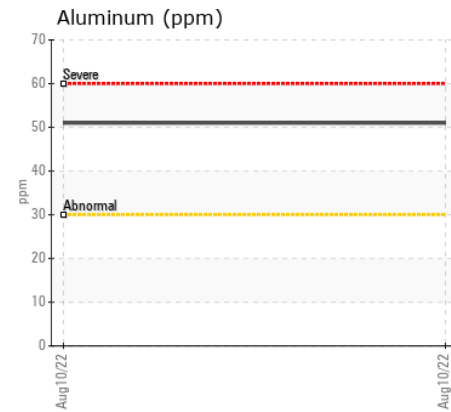
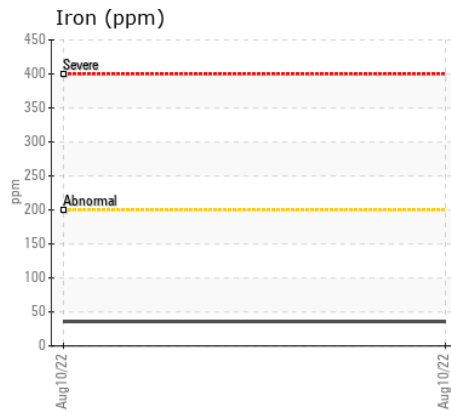
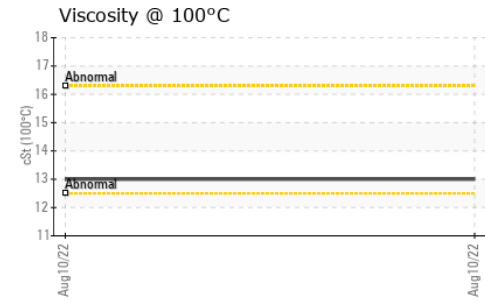
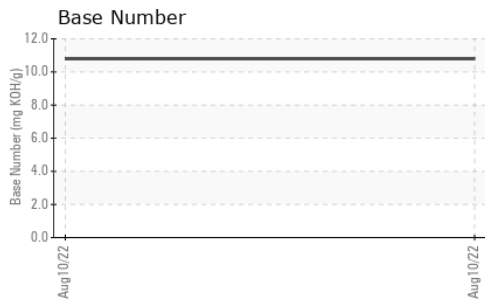
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>15</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	---	---
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.3</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.0</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

### 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>5</b>	---	---
Boron	ppm	ASTM D5185m		<b>77</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>36</b>	---	---
Manganese	ppm	ASTM D5185m		<b>4</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>510</b>	---	---
Calcium	ppm	ASTM D5185m		<b>1593</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>902</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1106</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3018</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.2</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>10.8</b>	---	---
Visc @ 100°C	cSt	ASTM D445		<b>13.0</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP354361 **Received** : 17 Aug 2022  
**Lab Number** : 05619874 **Tested** : 18 Aug 2022  
**Unique Number** : 10099381 **Diagnosed** : 18 Aug 2022 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**LEOTERRA DEVELOPMENT INC**  
 110 SHIELDS PARK DR  
 KERNERSVILLE, NC  
 US 27284  
 Contact: JASON LEE  
 jason.lee@leoterradevelopment.com  
 T: (704)298-5228  
 F:

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)