



# VOLVO

## OIL ANALYSIS REPORT

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



Area

**[SPM661773 HERC]**

Machine Id

**VOLVO ECR145EL 311879**

Component

**Left Travel**

Fluid

**VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)**

### RECOMMENDATION

The oil 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>VCP438857</b>	---	---
Sample Date		Client Info		<b>15 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>2911</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>ABNORMAL</b>	---	---

### WEAR

The tin level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	<b>568</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>10</b>	---	---
Nickel	ppm	ASTM D5185m	>5	<b>3</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>100	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>50	<b>1</b>	---	---
Copper	ppm	ASTM D5185m	>50	<b>2</b>	---	---
Tin	ppm	ASTM D5185m	>5	<b>▲ 36</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.

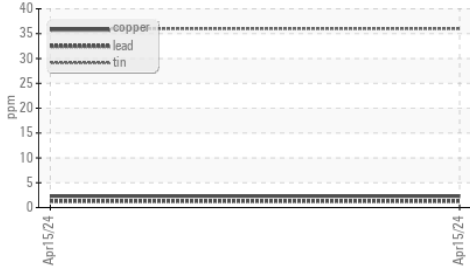
Silicon	ppm	ASTM D5185m	>100	<b>21</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Water		WC Method	>0.25	<b>NEG</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.25	<b>NEG</b>	---	---

### FLUID CONDITION

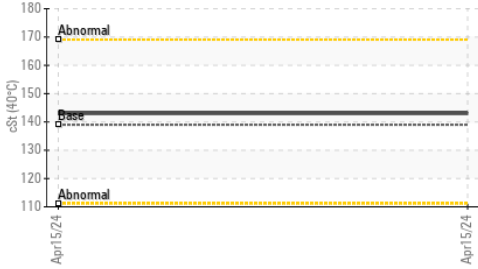
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	---	---
Boron	ppm	ASTM D5185m	379	<b>2</b>	---	---
Barium	ppm	ASTM D5185m	0.0	<b>4</b>	---	---
Molybdenum	ppm	ASTM D5185m	0.8	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m	0.0	<b>11</b>	---	---
Magnesium	ppm	ASTM D5185m	31	<b>2</b>	---	---
Calcium	ppm	ASTM D5185m	38	<b>63</b>	---	---
Phosphorus	ppm	ASTM D5185m	1077	<b>544</b>	---	---
Zinc	ppm	ASTM D5185m	46	<b>89</b>	---	---
Sulfur	ppm	ASTM D5185m	23526	<b>19184</b>	---	---
Visc @ 40°C	cSt	ASTM D445	139	<b>143</b>	---	---

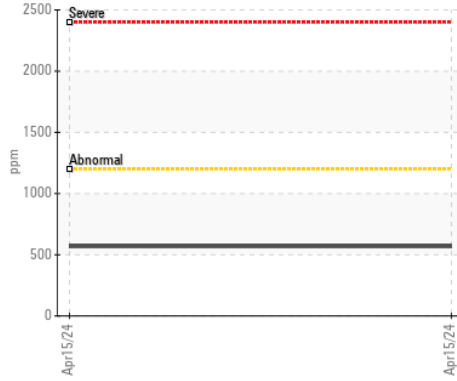
▲ Non-ferrous Metals



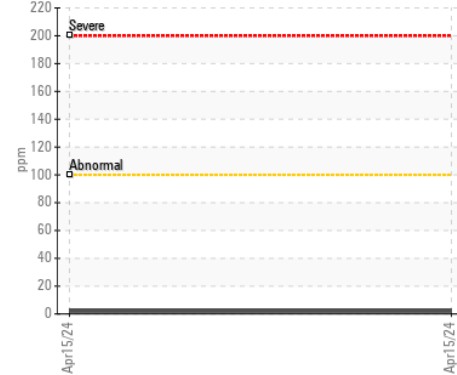
Viscosity @ 40°C



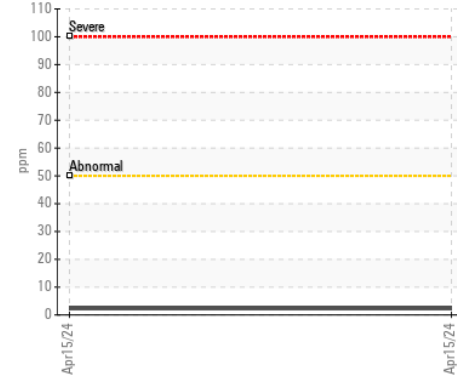
Iron (ppm)



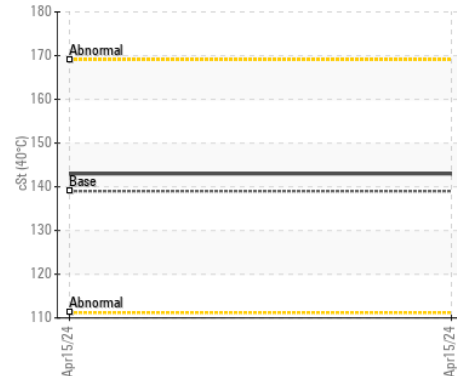
Aluminum (ppm)



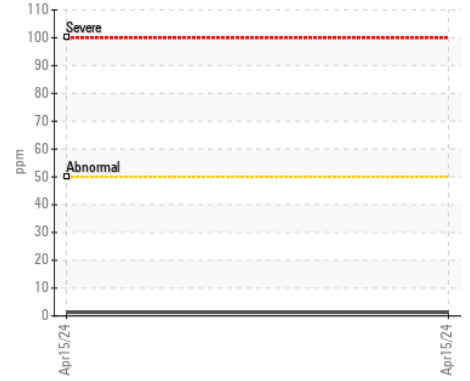
Copper (ppm)



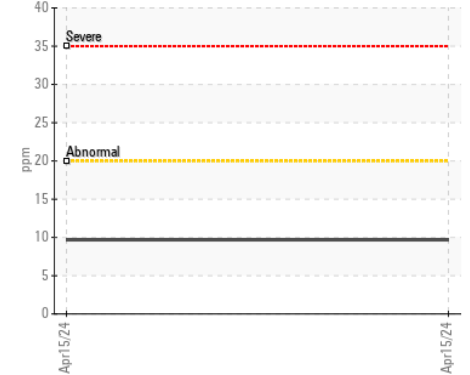
Viscosity @ 40°C



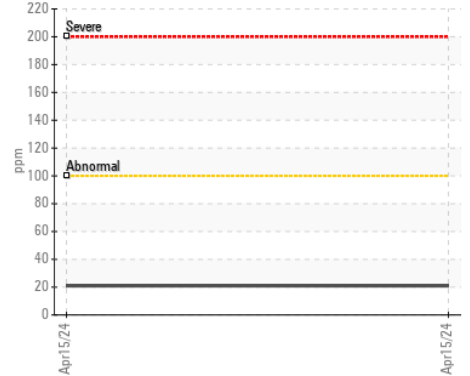
Lead (ppm)



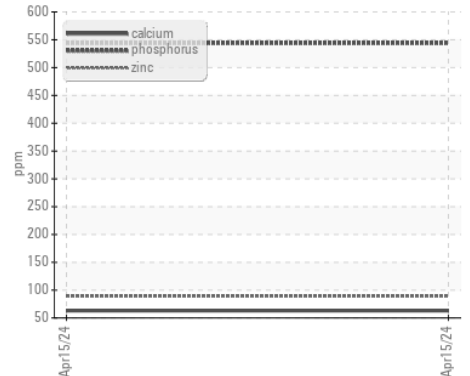
Chromium (ppm)



Silicon (ppm)



Additives



Certificate L2367

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

Sample No. : VCP438857

Lab Number : 06153477

Unique Number : 10983555

Test Package : MOB 1

Received : 18 Apr 2024

Tested : 19 Apr 2024

Diagnosed : 23 Apr 2024 - Jonathan Hester

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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)