



# VOLVO

## OIL ANALYSIS REPORT

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



Area

**[701219 HERC]**

Machine Id

**VOLVO ECR145 315778**

Component

**Rear Left Final Drive**

Fluid

**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP447376</b>	---	---
Sample Date		Client Info		<b>16 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>923</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Not Changed</b>	---	---
Filter Changed		Client Info		<b>Not Changed</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

### WEAR

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

Iron	ppm	ASTM D5185m	>500	<b>427</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>10</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	---	---
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>▲ 22</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.

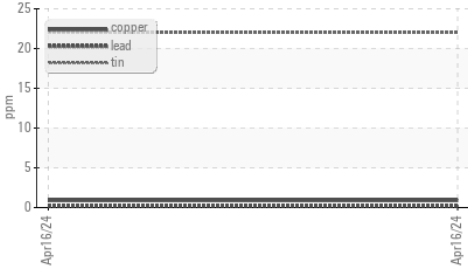
Silicon	ppm	ASTM D5185m	>75	<b>10</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

### FLUID CONDITION

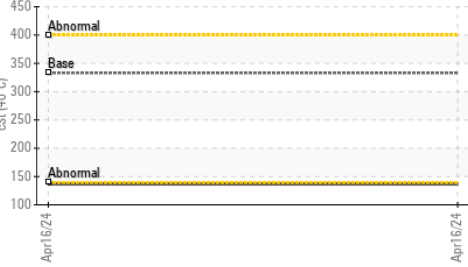
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>5</b>	---	---
Boron	ppm	ASTM D5185m	111	<b>0</b>	---	---
Barium	ppm	ASTM D5185m	0.0	<b>1</b>	---	---
Molybdenum	ppm	ASTM D5185m	0.9	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m	0.0	<b>7</b>	---	---
Magnesium	ppm	ASTM D5185m	39	<b>1</b>	---	---
Calcium	ppm	ASTM D5185m	93	<b>31</b>	---	---
Phosphorus	ppm	ASTM D5185m	920	<b>225</b>	---	---
Zinc	ppm	ASTM D5185m	104	<b>30</b>	---	---
Sulfur	ppm	ASTM D5185m	20179	<b>15634</b>	---	---
Visc @ 40°C	cSt	ASTM D445	333	<b>137</b>	---	---

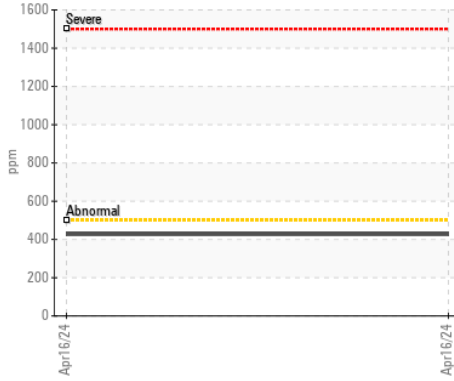
▲ Non-ferrous Metals



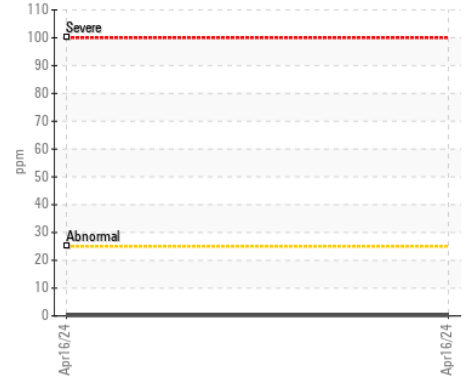
Viscosity @ 40°C



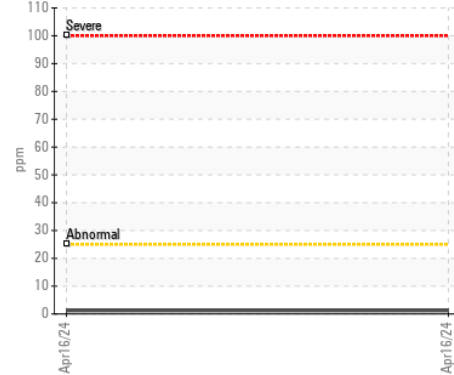
Iron (ppm)



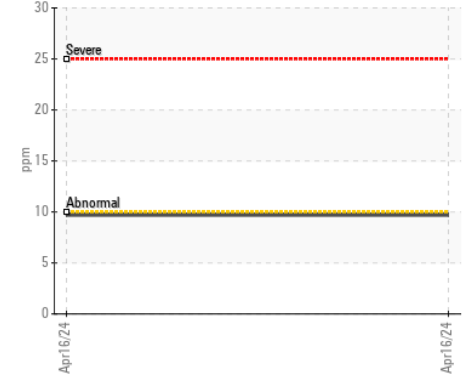
Lead (ppm)



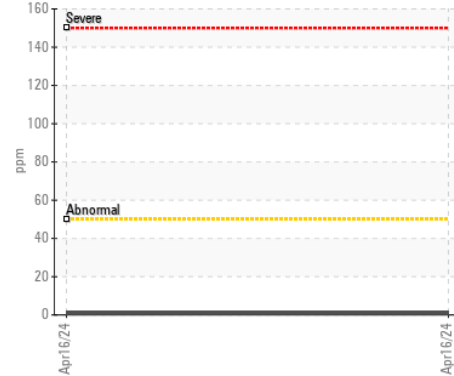
Aluminum (ppm)



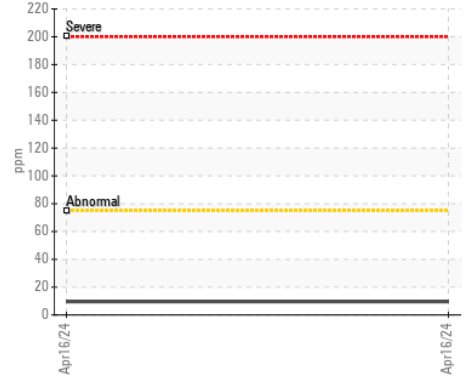
Chromium (ppm)



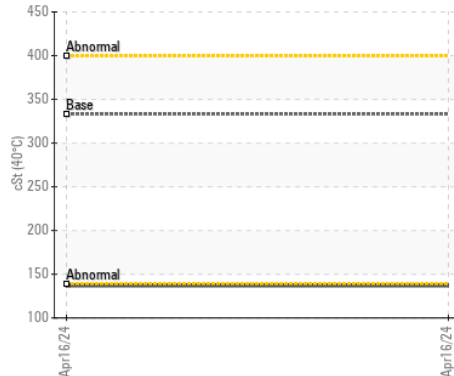
Copper (ppm)



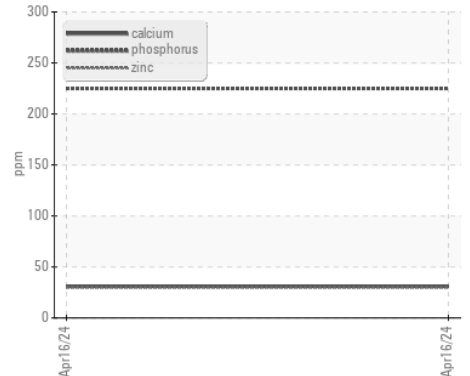
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP447376  
**Lab Number** : 06156424  
**Unique Number** : 10991847  
**Test Package** : MOB 1

**Received** : 22 Apr 2024  
**Tested** : 23 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Don Baldrige

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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)