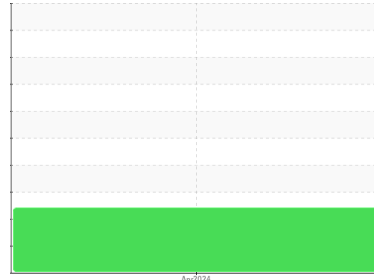




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**VOLVO ECR145 311293**  
 Component  
**Swing Drive**  
 Fluid  
**GEAR OIL SAE 85W140 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### ▲ Wear

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

### ▲ Contamination

There is a light concentration of water present in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>ML0000448</b>	---	---
Sample Date	Client Info		<b>08 Apr 2024</b>	---	---
Machine Age	hrs	Client Info	<b>2913</b>	---	---
Oil Age	hrs	Client Info	<b>1000</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >1200	<b>949</b>	---	---
Chromium	ppm	ASTM D5185m >10	<b>9</b>	---	---
Nickel	ppm	ASTM D5185m >10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	---	---
Lead	ppm	ASTM D5185m >50	<b>0</b>	---	---
Copper	ppm	ASTM D5185m >50	<b>▲ 53</b>	---	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185m 200	<b>5</b>	---	---
Molybdenum	ppm	ASTM D5185m 12	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m	<b>10</b>	---	---
Magnesium	ppm	ASTM D5185m 12	<b>&lt;1</b>	---	---
Calcium	ppm	ASTM D5185m 150	<b>16</b>	---	---
Phosphorus	ppm	ASTM D5185m 1650	<b>468</b>	---	---
Zinc	ppm	ASTM D5185m 125	<b>62</b>	---	---
Sulfur	ppm	ASTM D5185m 22500	<b>17884</b>	---	---

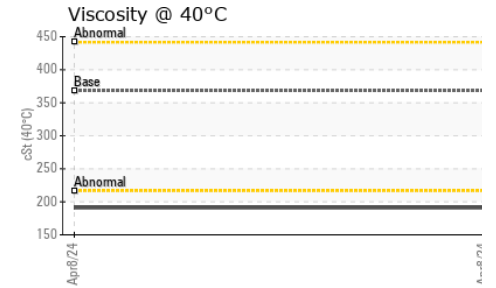
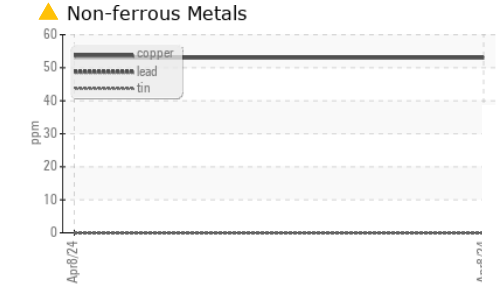
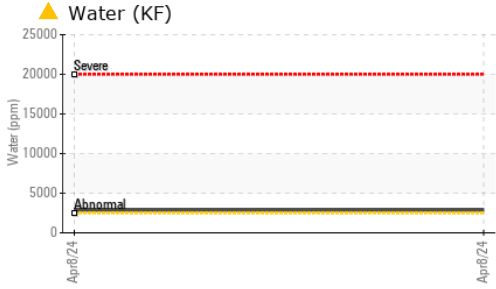
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	<b>18</b>	---	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	---	---
Water	%	ASTM D6304 >0.25	<b>▲ 0.285</b>	---	---
ppm Water	ppm	ASTM D6304 >2500	<b>▲ 2850</b>	---	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	---	---
Silt	scalar	*Visual NONE	<b>MODER</b>	---	---
Debris	scalar	*Visual NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual NORML	<b>HAZY</b>	---	---
Odor	scalar	*Visual NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual >0.25	<b>0.2%</b>	---	---
Free Water	scalar	*Visual	<b>NEG</b>	---	---



# OIL ANALYSIS REPORT



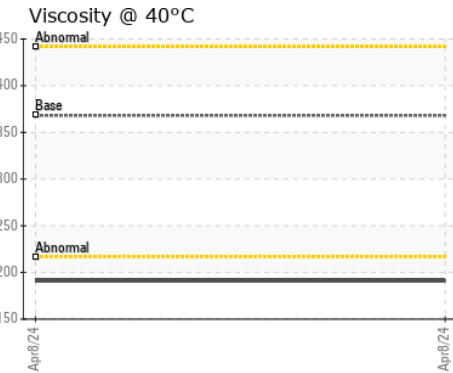
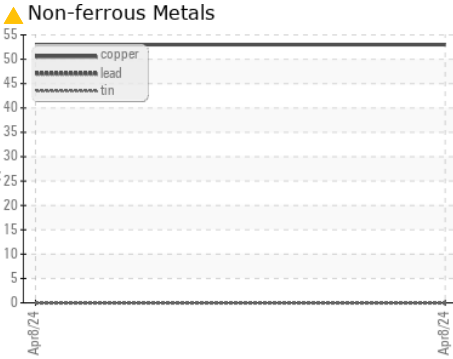
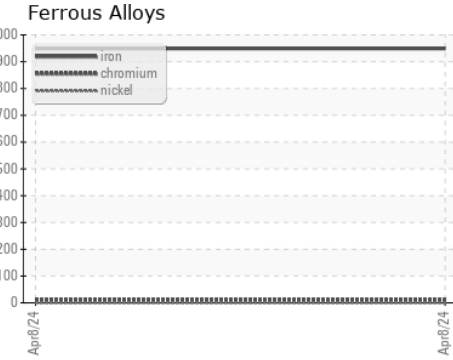
**FLUID PROPERTIES**

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	368	191	---

**SAMPLE IMAGES**

method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

**GRAPHS**



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0000448      **Received** : 16 Apr 2024  
**Lab Number** : **06150697**      **Tested** : 18 Apr 2024  
**Unique Number** : 10980775      **Diagnosed** : 18 Apr 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: KF )

**McCLUNG-LOGAN EQUIPMENT CO - WINCHESTER**  
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 US 22603  
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 T: (540)722-3700  
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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)