



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**VOLVO EC350E 314190**

Component  
**Hydraulic System**

Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0001630</b>	---	---
Sample Date		Client Info		<b>08 May 2024</b>	---	---
Machine Age	hrs	Client Info		<b>2348</b>	---	---
Oil Age	hrs	Client Info		<b>450</b>	---	---
Filter Age	hrs	Client Info		<b>450</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	<b>7</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>150	<b>30</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

## CONTAMINATION

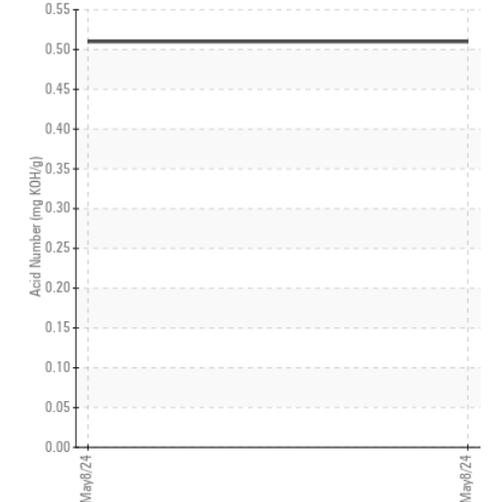
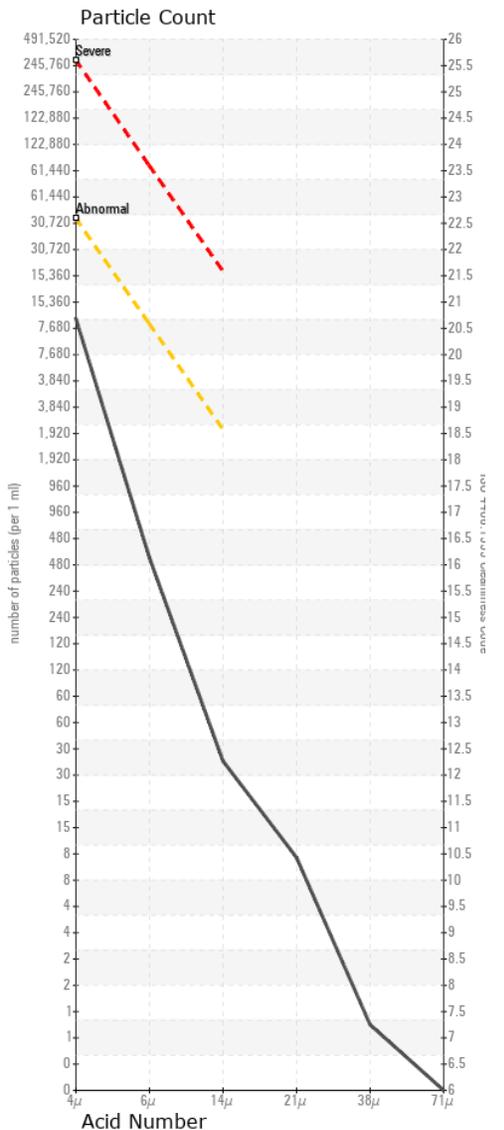
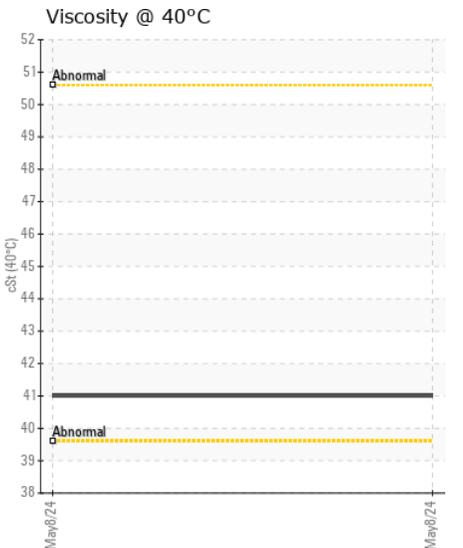
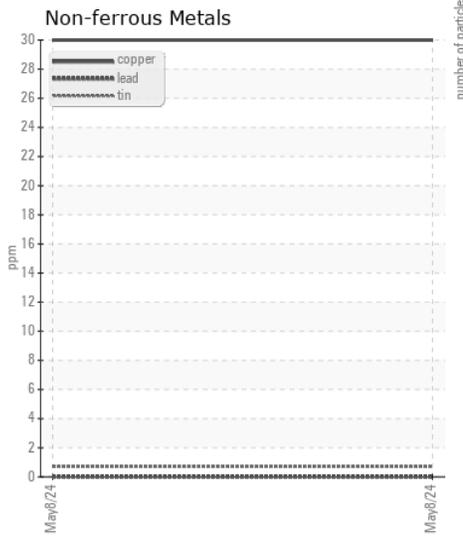
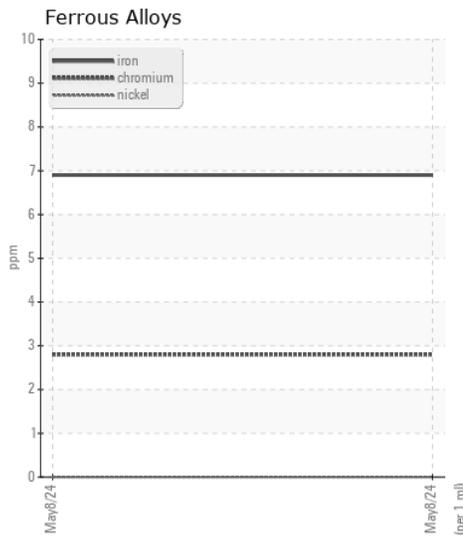
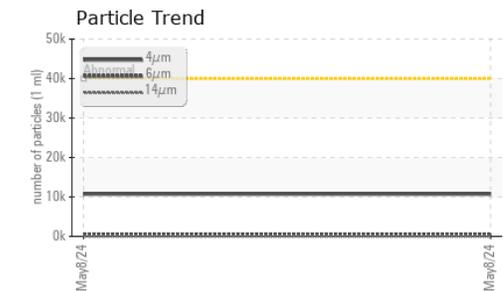
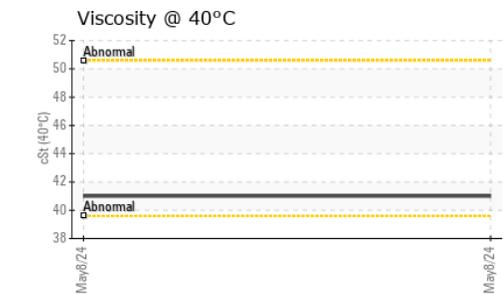
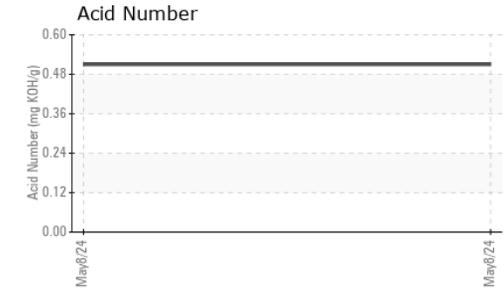
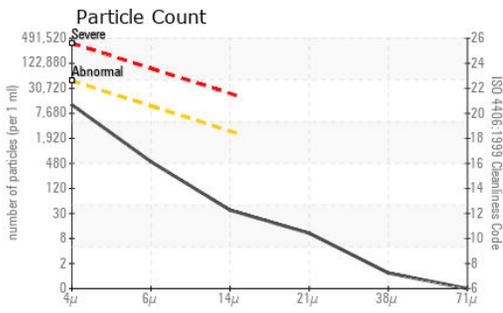
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>5</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Particles >4µm		ASTM D7647	>40000	<b>10738</b>	---	---
Particles >6µm		ASTM D7647	>10000	<b>463</b>	---	---
Particles >14µm		ASTM D7647	>2500	<b>32</b>	---	---
Particles >21µm		ASTM D7647	>640	<b>9</b>	---	---
Particles >38µm		ASTM D7647	>160	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>40	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>22/20/18	<b>21/16/12</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	>0.1	<b>NEG</b>	---	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	---	---
Boron	ppm	ASTM D5185m		<b>0</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>2</b>	---	---
Manganese	ppm	ASTM D5185m		<b>1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>37</b>	---	---
Calcium	ppm	ASTM D5185m		<b>524</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>480</b>	---	---
Zinc	ppm	ASTM D5185m		<b>628</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>2242</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.51</b>	---	---
Visc @ 40°C	cSt	ASTM D445		<b>41.0</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0001630  
**Lab Number** : 06177057  
**Unique Number** : 11023110  
**Test Package** : CONST

**Received** : 13 May 2024  
**Tested** : 14 May 2024  
**Diagnosed** : 14 May 2024 - Don Baldrige

**MCCLUNG-LOGAN EQUIPMENT CO - WISE**  
 PO BOX 1158  
 WISE, VA  
 US 24293

Contact: DANNY BARRINGTON  
 dbarrington@mcclung-logan.com

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)

T:  
F: