



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



Machine Id  
**VOLVO ECR355E 310109 - ECR355E**  
Component  
**Swing Drive**  
Fluid  
**GEAR OIL SAE 90W140 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0000319</b>	VCP387998	VCP312860
Sample Date		Client Info		<b>07 Feb 2024</b>	05 Dec 2022	08 Dec 2021
Machine Age	hrs	Client Info		<b>3509</b>	2888	2266
Oil Age	hrs	Client Info		<b>1500</b>	0	0
Filter Age	hrs	Client Info		<b>1500</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Not Changed	N/A
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	<b>102</b>	178	200
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	2	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	3	3
Lead	ppm	ASTM D5185m	>50	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>50	<b>3</b>	8	10
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

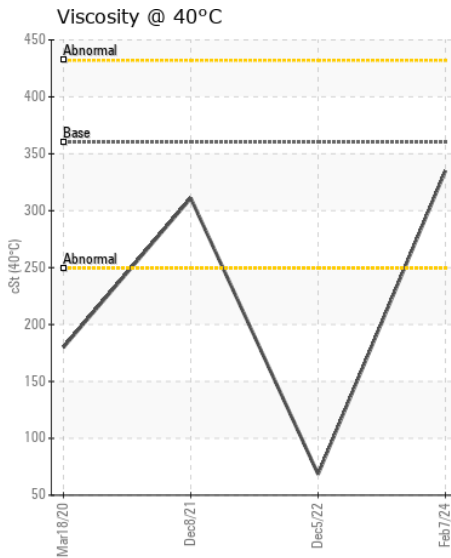
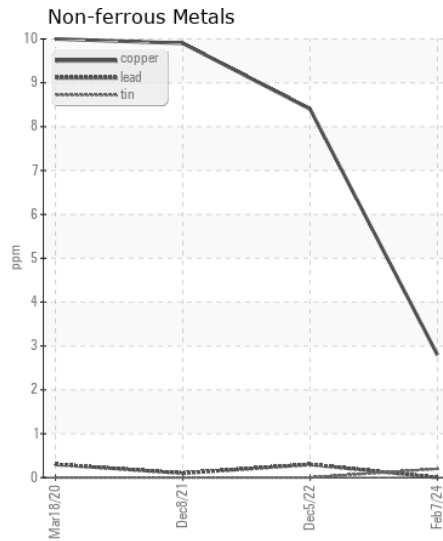
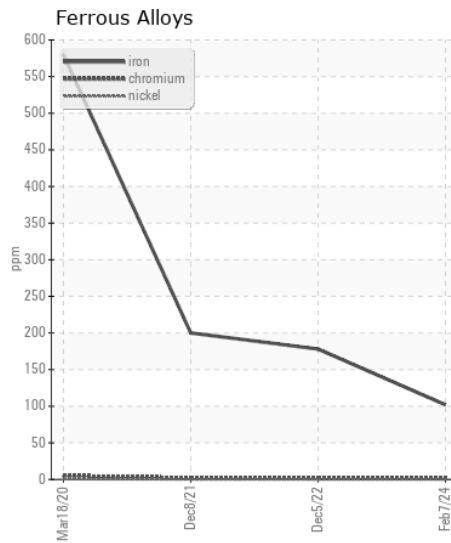
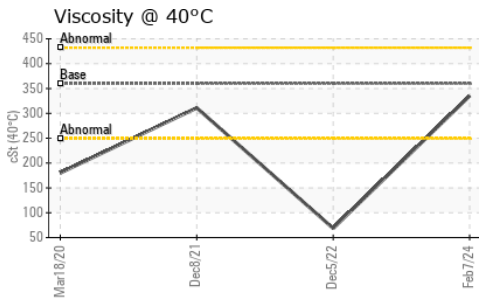
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	<b>12</b>	23	5
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Water		WC Method	>0.25	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.25	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>0</b>	3	0
Boron	ppm	ASTM D5185m	400	<b>201</b>	184	98
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	2	3
Magnesium	ppm	ASTM D5185m	12	<b>0</b>	7	1
Calcium	ppm	ASTM D5185m	150	<b>15</b>	32	9
Phosphorus	ppm	ASTM D5185m	1650	<b>1024</b>	2096	879
Zinc	ppm	ASTM D5185m	125	<b>0</b>	42	34
Sulfur	ppm	ASTM D5185m	22500	<b>29807</b>	33217	18128
Visc @ 40°C	cSt	ASTM D445	360	<b>335</b>	▲ 68.5	311



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0000319  
**Lab Number** : 06087806  
**Unique Number** : 10875251  
**Test Package** : CONST

**Received** : 13 Feb 2024  
**Tested** : 14 Feb 2024  
**Diagnosed** : 15 Feb 2024 - Jonathan Hester

**MCCLUNG-LOGAN EQUIPMENT CO - SALEM**  
 2025 COOK DRIVE  
 SALEM, VA  
 US 24153

Contact: HUNTER TRIVELLIN  
 trivellin@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:  
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