



# ASCENDUM

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO EC480EL 314818**  
Component  
**Right Swing Drive**  
Fluid  
**VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0008658</b>	VCP435278	VCP407530
Sample Date		Client Info		<b>05 Mar 2024</b>	14 Sep 2023	27 Jun 2023
Machine Age	hrs	Client Info		<b>2217</b>	1705	1409
Oil Age	hrs	Client Info		<b>512</b>	0	162
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>N/A</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	<b>46</b>	139	122
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>4</b>	12	10
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

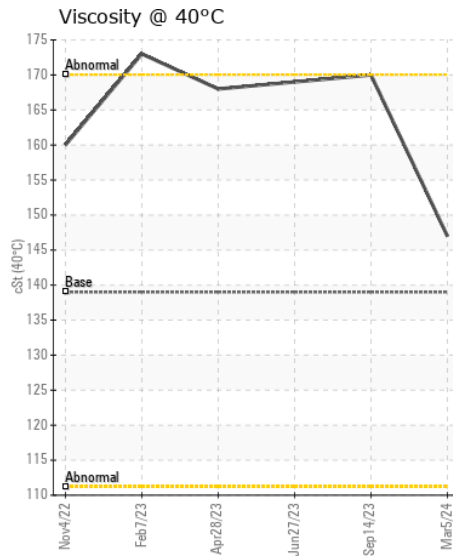
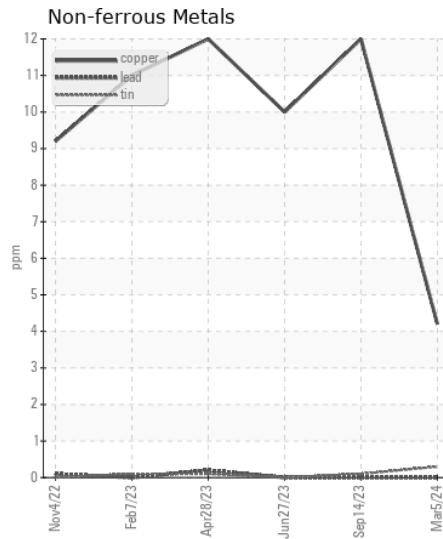
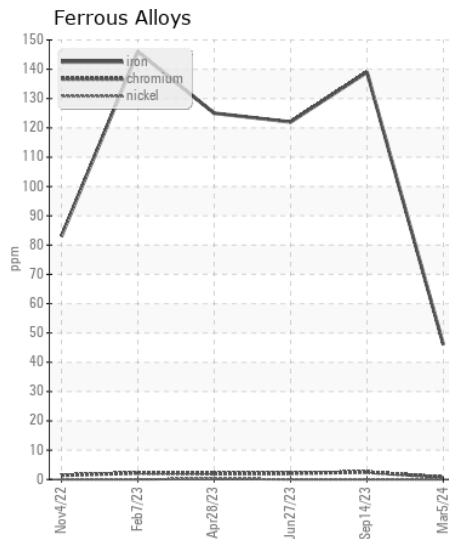
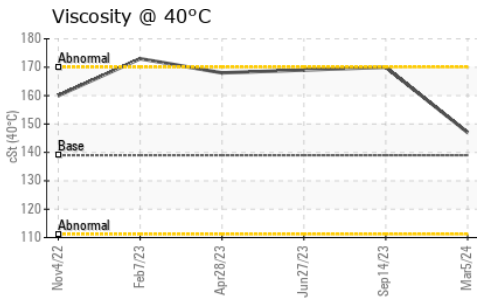
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	<b>4</b>	16	13
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	0
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>	LIGHT	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>	0	<1
Boron	ppm	ASTM D5185m	379	<b>165</b>	21	22
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	2	3
Molybdenum	ppm	ASTM D5185m	0.8	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	2	2
Magnesium	ppm	ASTM D5185m	31	<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185m	38	<b>9</b>	6	17
Phosphorus	ppm	ASTM D5185m	1077	<b>937</b>	392	428
Zinc	ppm	ASTM D5185m	46	<b>10</b>	16	19
Sulfur	ppm	ASTM D5185m	23526	<b>26393</b>	17169	19973
Visc @ 40°C	cSt	ASTM D445	139	<b>147</b>	170	169



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0008658  
**Lab Number** : 06121796  
**Unique Number** : 10935947  
**Test Package** : CONST  
**Received** : 18 Mar 2024  
**Tested** : 19 Mar 2024  
**Diagnosed** : 21 Mar 2024 - Jonathan Hester

**HANSON AGGREGATES**  
 10501 CAPITAL BLVD  
 WAKE FOREST, NC  
 US 27587  
 Contact: RICKEY DAVIS

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)

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F: