



# ASCENDUM

## OIL ANALYSIS REPORT



Area  
**Blythe Construction CSA - Charlotte**  
Machine Id  
**VOLVO EC250E 3004996 (S/N 250E310486)**  
Component  
**Right Travel**  
Fluid  
**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)**

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

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system.  
We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0007373</b>	ASC0000956	ASC0000130
Sample Date		Client Info		<b>19 Mar 2024</b>	08 Dec 2023	05 Jun 2023
Machine Age	hrs	Client Info		<b>6432</b>	6432	5993
Oil Age	hrs	Client Info		<b>5993</b>	439	127
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>None</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>1200	<b>▲ 1449</b>	▲ 1213	617
Chromium	ppm	ASTM D5185m	>20	<b>11</b>	10	5
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>18</b>	▲ 17	11
Silver	ppm	ASTM D5185m		<b>2</b>	0	0
Aluminum	ppm	ASTM D5185m	>100	<b>● 141</b>	● 132	● 94
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>MODER</b>	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

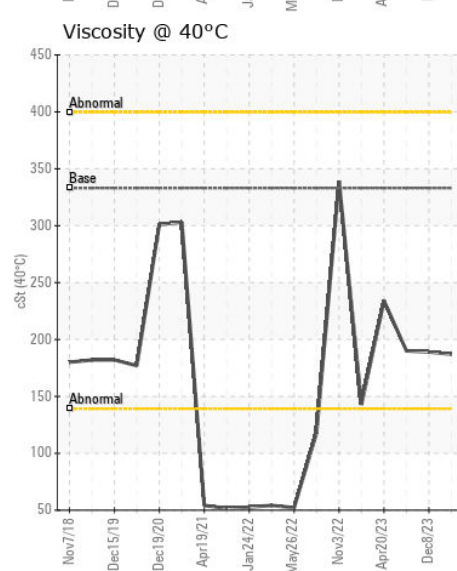
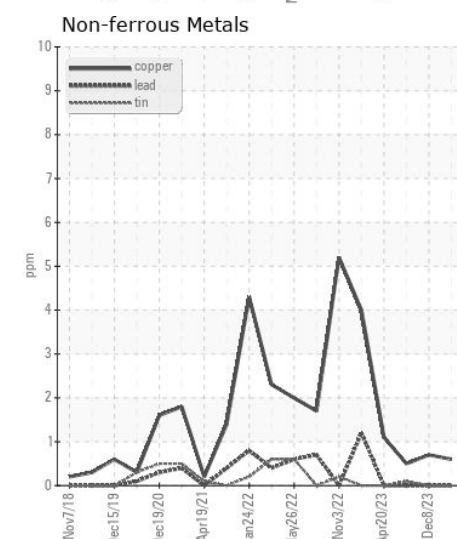
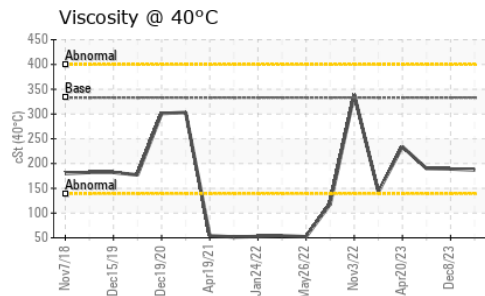
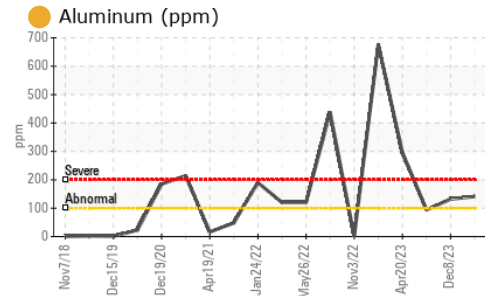
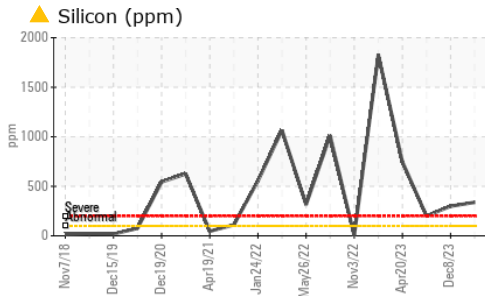
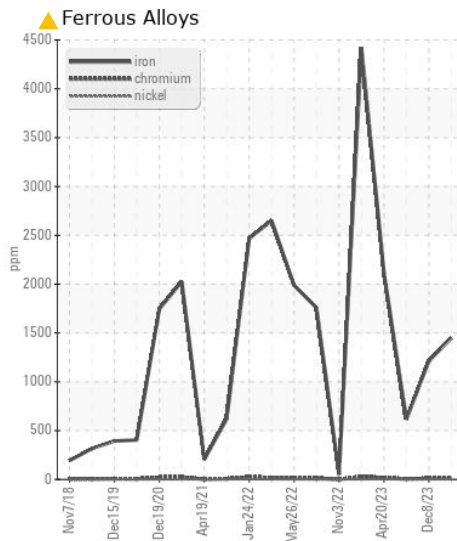
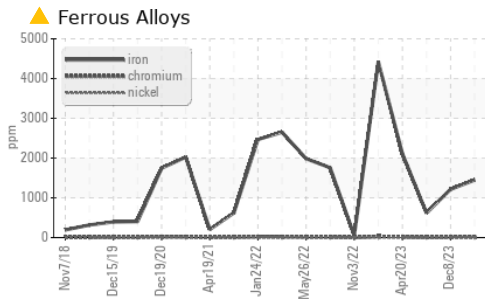
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>100	<b>▲ 338</b>	▲ 299	▲ 200
Potassium	ppm	ASTM D5185m	>20	<b>10</b>	11	7
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>26</b>	26	15
Boron	ppm	ASTM D5185m	111	<b>125</b>	139	139
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.9	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m	0.0	<b>10</b>	10	6
Magnesium	ppm	ASTM D5185m	39	<b>28</b>	27	20
Calcium	ppm	ASTM D5185m	93	<b>80</b>	74	52
Phosphorus	ppm	ASTM D5185m	920	<b>859</b>	832	902
Zinc	ppm	ASTM D5185m	104	<b>105</b>	100	111
Sulfur	ppm	ASTM D5185m	20179	<b>25093</b>	24660	28066
Visc @ 40°C	cSt	ASTM D445	333	<b>187</b>	189	190



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0007373  
**Lab Number** : 06125208  
**Unique Number** : 10939359  
**Test Package** : CONST  
**Received** : 21 Mar 2024  
**Tested** : 25 Mar 2024  
**Diagnosed** : 25 Mar 2024 - Sean Felton

**BLYTHE CONSTRUCTION INC**  
 2911 N GRAHAM STREET  
 CHARLOTTE, NC  
 US 28231  
 Contact: Service Manager

Certificate L2367  
 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)