



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**Blythe & Zachary JV CSA - I85 SC**

Machine Id  
**VOLVO EC220E 3005459 (S/N 220E310798)**

Component  
**Left Travel**

Fluid  
**GEAR OIL SAE 90W140 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP373605</b>	VCP343405	VCP304866
Sample Date		Client Info		<b>06 Sep 2022</b>	07 Dec 2021	21 Jul 2021
Machine Age	hrs	Client Info		<b>0</b>	0	2507
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Not Chngd
Filter Changed		Client Info		<b>N/A</b>	Not Chngd	Not Chngd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

### WEAR

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

Iron	ppm	ASTM D5185m	>500	<b>279</b>	499	192
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	5	2
Nickel	ppm	ASTM D5185m		<b>0</b>	2	1
Titanium	ppm	ASTM D5185m		<b>2</b>	3	2
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	4	<1
Aluminum	ppm	ASTM D5185m	>25	<b>▲ 27</b>	55	25
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>MODER</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

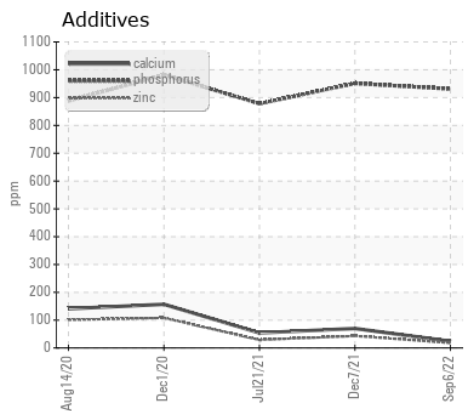
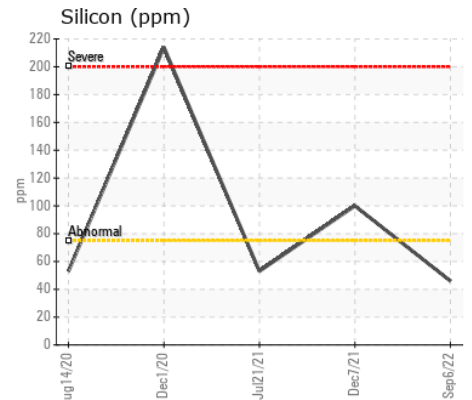
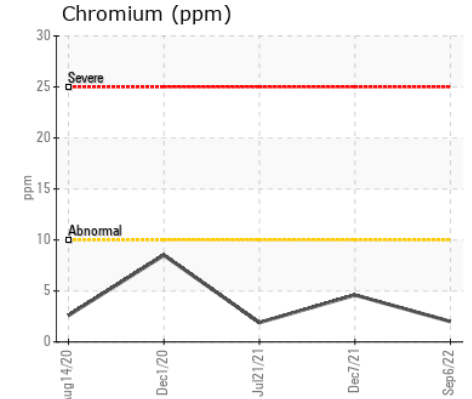
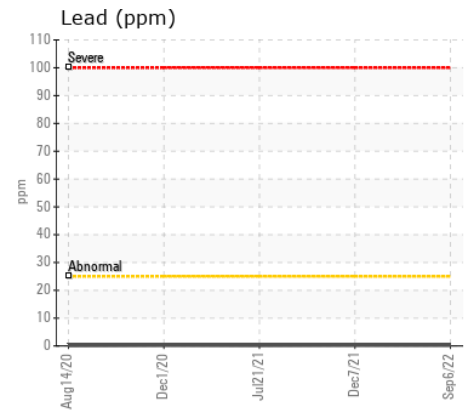
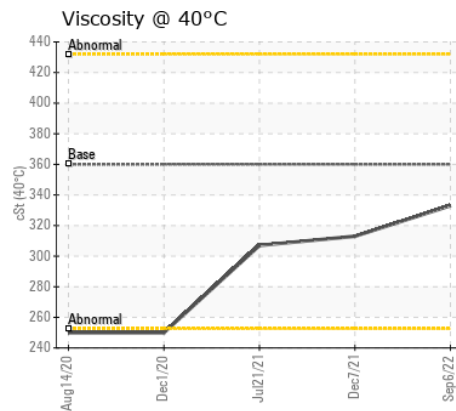
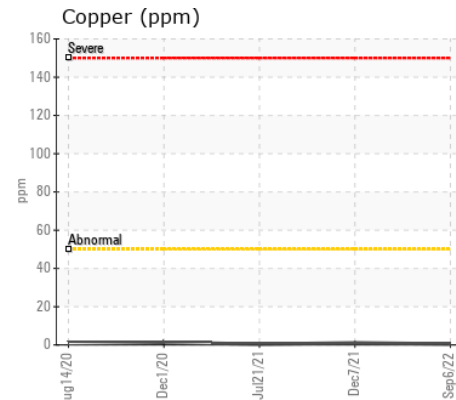
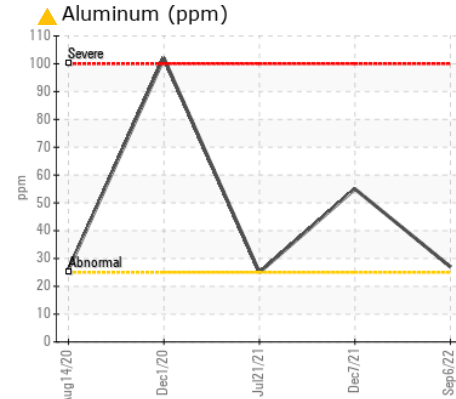
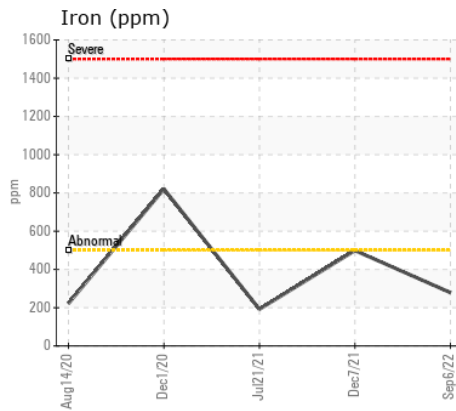
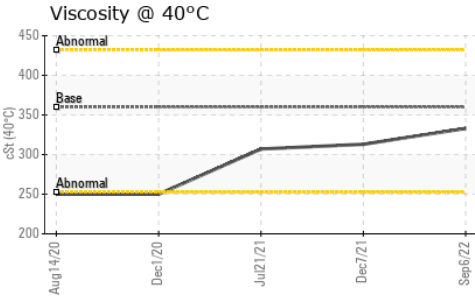
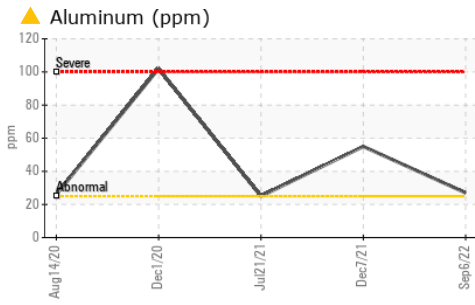
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>46</b>	▲ 100	53
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	7	3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
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	>0.2	<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>	2	0
Boron	ppm	ASTM D5185m	400	<b>145</b>	132	167
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>2</b>	4	2
Magnesium	ppm	ASTM D5185m	12	<b>4</b>	9	5
Calcium	ppm	ASTM D5185m	150	<b>24</b>	70	54
Phosphorus	ppm	ASTM D5185m	1650	<b>931</b>	951	878
Zinc	ppm	ASTM D5185m	125	<b>18</b>	43	29
Sulfur	ppm	ASTM D5185m	22500	<b>26561</b>	24076	22908
Visc @ 40°C	cSt	ASTM D445	360	<b>333</b>	313	307



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP373605  
**Lab Number** : 05636208  
**Unique Number** : 10125738  
**Test Package** : MOB 1

**Received** : 07 Sep 2022  
**Tested** : 08 Sep 2022  
**Diagnosed** : 09 Sep 2022 - Don Baldrige

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

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: (704)373-2960