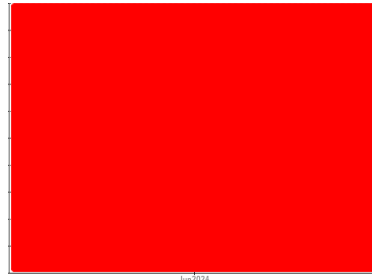
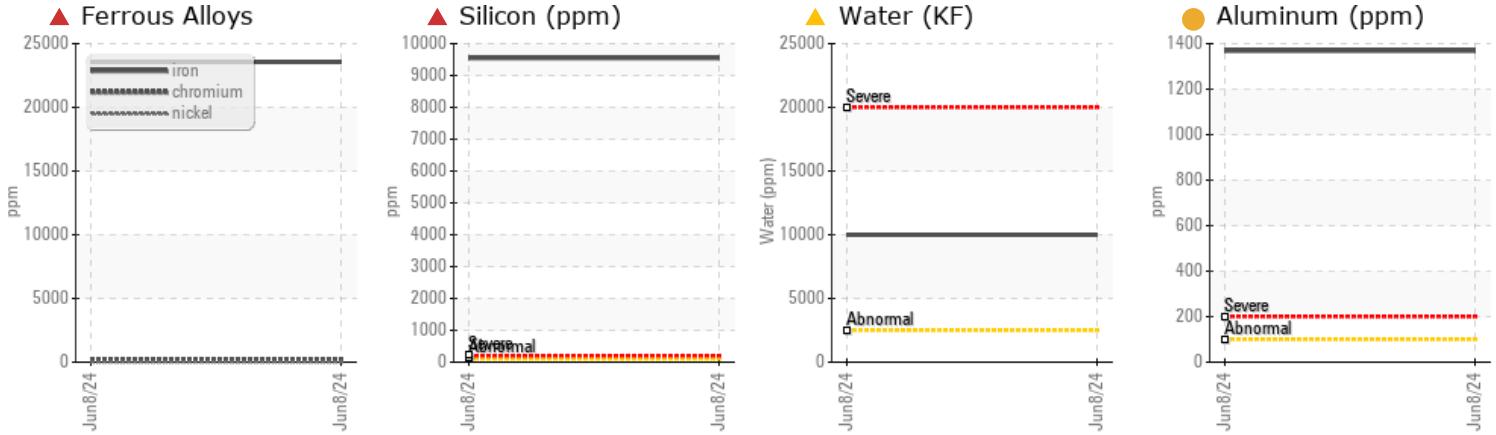


Area  
**Ascendum Machinery/500 Hour CSA**  
 Machine Id  
**VOLVO EC220E 310445**  
 Component  
**Left Travel**  
 Fluid  
**{not provided} (--- GAL)**



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please note that the oil was too thick to perform some of the normal laboratory tests.

PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	---	---
Iron	▲ 23568	---	---
Chromium	▲ 226	---	---
Nickel	▲ 26	---	---
Silicon	▲ 9550	---	---
Water	▲ 1.00	---	---
ppm Water	▲ 10000	---	---

Customer Id: TRIBUR  
 Sample No.: ASC0009536  
 Lab Number: 06210543  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	Please note that the oil was too thick to perform some of the normal laboratory tests.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

Area

Ascendum Machinery/500 Hour CSA

Machine Id

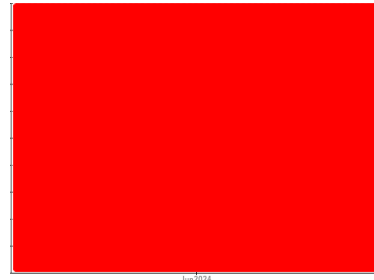
VOLVO EC220E 310445

Component

Left Travel

Fluid

{not provided} (--- GAL)



DIAGNOSIS

▲ Recommendation

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please note that the oil was too thick to perform some of the normal laboratory tests.

▲ Wear

Gear wear is indicated.

▲ Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info	ASC0009536	---	---
Sample Date	Client Info	08 Jun 2024	---	---
Machine Age	days	Client Info	5552	---
Oil Age	days	Client Info	5552	---
Oil Changed	Client Info	Changed	---	---
Sample Status		SEVERE	---	---

WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>1200	▲ 23568	---	---
Chromium	ppm	ASTM D5185m	>20	▲ 226	---	---
Nickel	ppm	ASTM D5185m	>5	▲ 26	---	---
Titanium	ppm	ASTM D5185m		125	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>100	● 1369	---	---
Lead	ppm	ASTM D5185m	>50	3	---	---
Copper	ppm	ASTM D5185m	>50	45	---	---
Tin	ppm	ASTM D5185m	>5	0	---	---
Vanadium	ppm	ASTM D5185m		4	---	---
Cadmium	ppm	ASTM D5185m		1	---	---

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185m		27	---	---
Barium	ppm	ASTM D5185m		3	---	---
Molybdenum	ppm	ASTM D5185m		27	---	---
Manganese	ppm	ASTM D5185m		155	---	---
Magnesium	ppm	ASTM D5185m		85	---	---
Calcium	ppm	ASTM D5185m		222	---	---
Phosphorus	ppm	ASTM D5185m		445	---	---
Zinc	ppm	ASTM D5185m		32	---	---
Sulfur	ppm	ASTM D5185m		60744	---	---

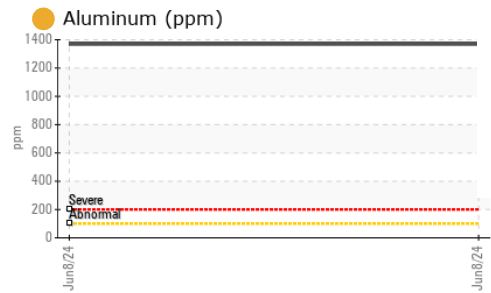
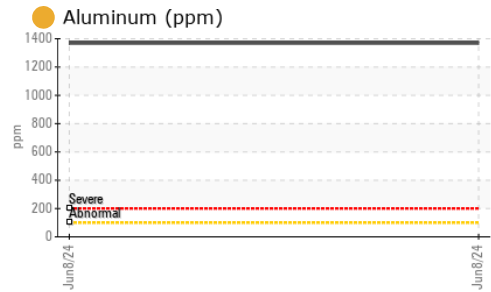
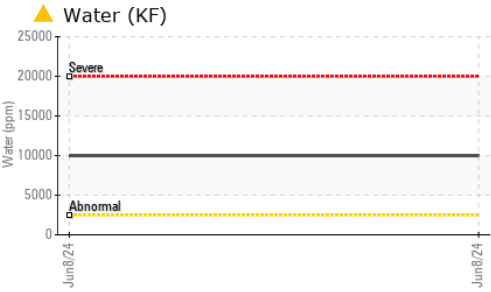
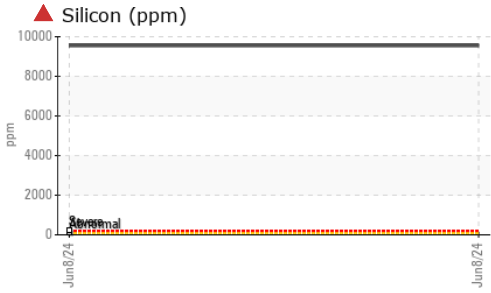
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>100	▲ 9550	---	---
Sodium	ppm	ASTM D5185m		139	---	---
Potassium	ppm	ASTM D5185m	>20	313	---	---
Water	%	ASTM D6304	>0.25	▲ 1.00	---	---
ppm Water	ppm	ASTM D6304	>2500	▲ 10000	---	---

VISUAL method limit/base current history1 history2

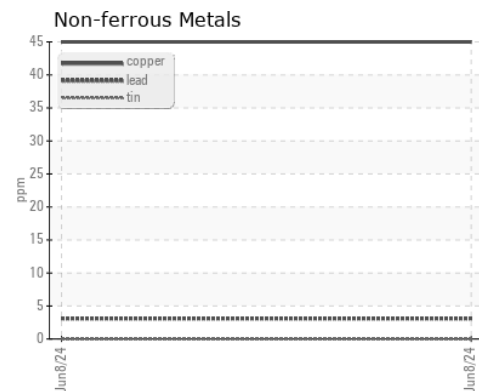
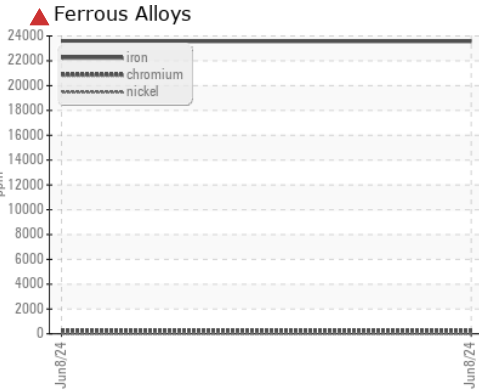
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.25	0.2%	---	---
Free Water	scalar	*Visual		NEG	---	---

# OIL ANALYSIS REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0009536      **Received** : 14 Jun 2024  
**Lab Number** : 06210543      **Tested** : 20 Jun 2024  
**Unique Number** : 11083407      **Diagnosed** : 20 Jun 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: KF )

**TRIANGLE GRADING AND PAVING INC**  
 1521 Huffman Mill Rd  
 BURLINGTON, NC  
 US 27216  
 Contact: KAREN HILLIARD  
 khilliard@trianglegradingpaving.com  
 T: (336)584-1745  
 F: (336)584-0145

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)