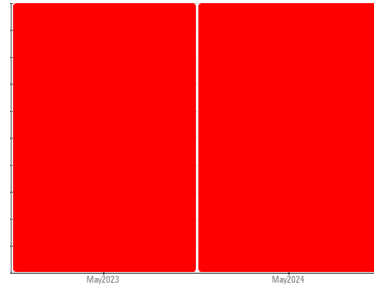


PROBLEM SUMMARY

Sample Rating Trend

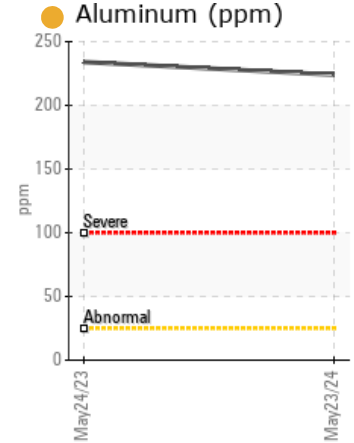
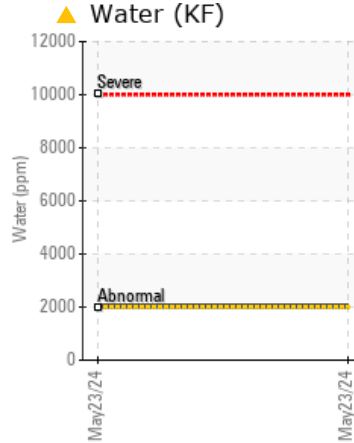
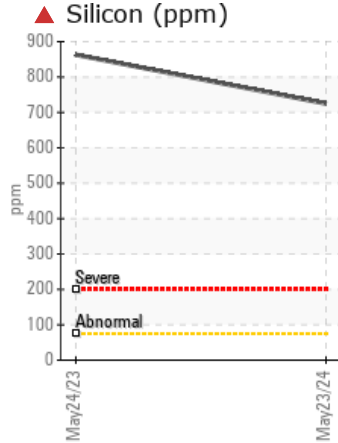
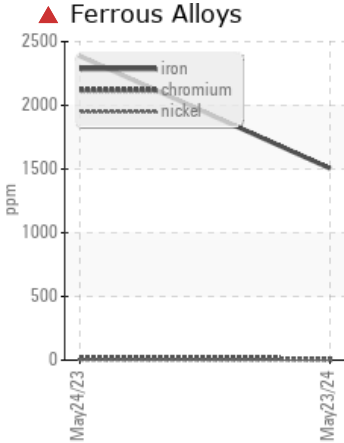


WEAR



Area  
**Ascendum Machinery/500 Hour CSA**  
 Machine Id  
**VOLVO EC300E 1848 (S/N 311167)**  
 Component  
**Rear Left Final Drive**  
 Fluid  
**{not provided} (--- GAL)**

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	---
Iron	ppm	ASTM D5185m	>500	▲ 1505	▲ 2387	---
Chromium	ppm	ASTM D5185m	>10	▲ 10	▲ 20	---
Titanium	ppm	ASTM D5185m		▲ 11	12	---
Silicon	ppm	ASTM D5185m	>75	▲ 725	▲ 863	---
Water	%	ASTM D6304	>0.2	▲ 0.202	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2020	---	---

Customer Id: TRIBUR  
 Sample No.: ASC0011310  
 Lab Number: 06212636  
 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.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

## HISTORICAL DIAGNOSIS

### WEAR



#### 24 May 2023 Diag: Don Baldrige

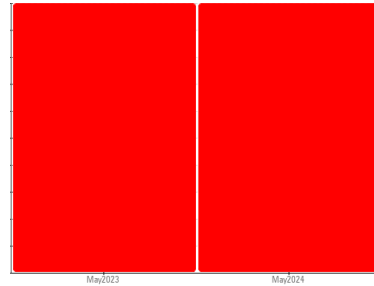
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Moderate concentration of visible metal present. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

view report





Area  
**Ascendum Machinery/500 Hour CSA**  
 Machine Id  
**VOLVO EC300E 1848 (S/N 311167)**  
 Component  
**Rear Left Final Drive**  
 Fluid  
**{not provided} (--- GAL)**



**DIAGNOSIS**

**▲ Recommendation**  
 We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

**▲ Wear**  
 Gear wear is indicated.

**▲ Contamination**  
 Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light 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		<b>ASC0011310</b>	VCP389686	---
Sample Date	Client Info		<b>23 May 2024</b>	24 May 2023	---
Machine Age	hrs	Client Info	<b>8414</b>	7563	---
Oil Age	hrs	Client Info	<b>851</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	Changed	---
Sample Status			<b>SEVERE</b>	SEVERE	---

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>▲ 1505</b>	▲ 2387	---
Chromium	ppm	ASTM D5185m >10	<b>▲ 10</b>	▲ 20	---
Nickel	ppm	ASTM D5185m >10	<b>2</b>	2	---
Titanium	ppm	ASTM D5185m	<b>▲ 11</b>	12	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>● 224</b>	● 234	---
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >50	<b>4</b>	4	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>110</b>	160	---
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	3	---
Manganese	ppm	ASTM D5185m	<b>10</b>	16	---
Magnesium	ppm	ASTM D5185m	<b>12</b>	25	---
Calcium	ppm	ASTM D5185m	<b>20</b>	38	---
Phosphorus	ppm	ASTM D5185m	<b>1113</b>	1250	---
Zinc	ppm	ASTM D5185m	<b>14</b>	7	---
Sulfur	ppm	ASTM D5185m	<b>37707</b>	33749	---

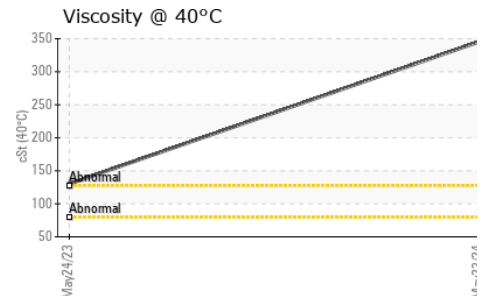
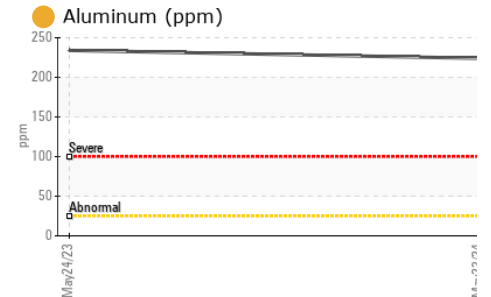
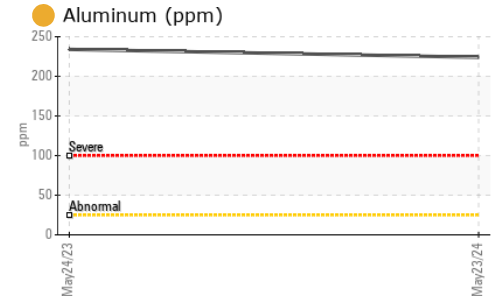
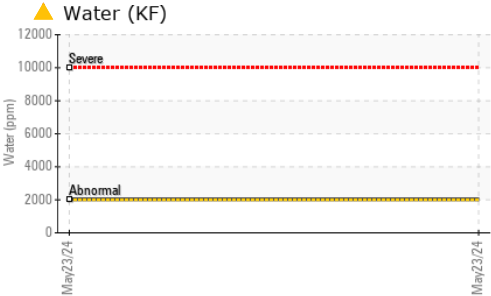
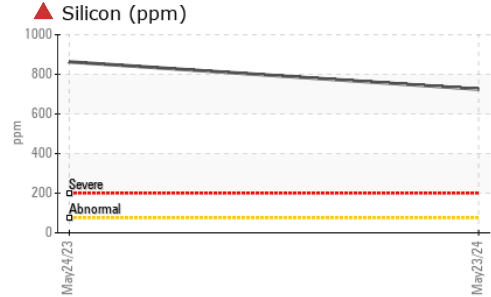
**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>▲ 725</b>	▲ 863	---
Sodium	ppm	ASTM D5185m	<b>17</b>	31	---
Potassium	ppm	ASTM D5185m >20	<b>44</b>	52	---
Water	%	ASTM D6304 >0.2	<b>▲ 0.202</b>	---	---
ppm Water	ppm	ASTM D6304 >2000	<b>▲ 2020</b>	---	---

**VISUAL**

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	▲ MODER	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual >0.2	<b>0.2%</b>	NEG	---
Free Water	scalar	*Visual	<b>NEG</b>	NEG	---

# OIL ANALYSIS REPORT

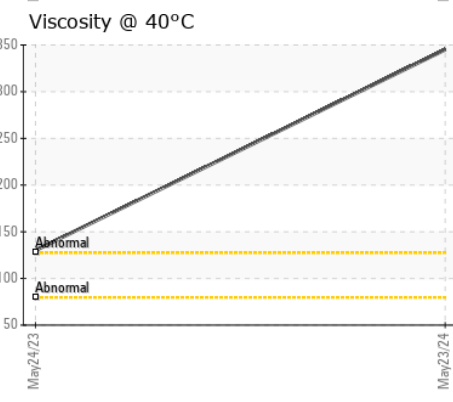
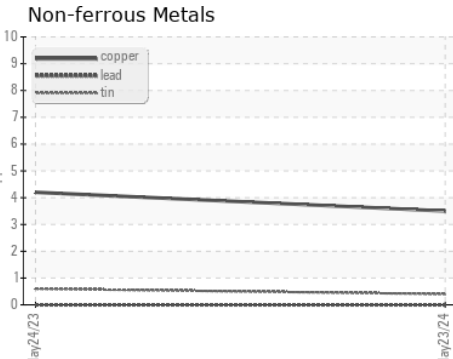
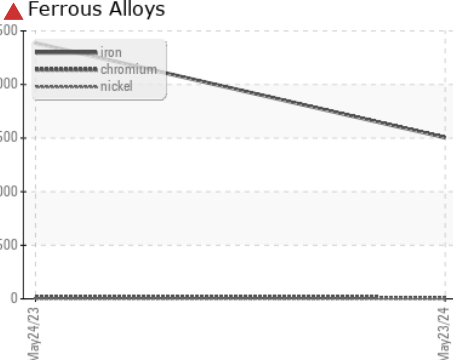


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>345</b>	130	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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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.** : ASC0011310      **Received** : 17 Jun 2024  
**Lab Number** : **06212636**      **Tested** : 20 Jun 2024  
**Unique Number** : 11085500      **Diagnosed** : 20 Jun 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: KF )

**TRIANGLE GRADING AND PAVING INC**  
 1521 Huffman Mill Rd  
 BURLINGTON, NC  
 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)