WEAR CONTAMINATION FLUID CONDITION

SEVERE SEVERE NORMAL



## Ascendum Machinery/500 Hour CSA VOLVO EC300E 1848 (S/N 311167)

**Rear Left Final Drive** 

{not provided} (--- GAL)

			ΑTI	

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.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0011310	VCP389686	
Sample Date		Client Info		23 May 2024	24 May 2023	
Machine Age	hrs	Client Info		8414	7563	
Oil Age	hrs	Client Info		851	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Changed	
Filter Changed		Client Info		N/A	N/A	
Sample Status				SEVERE	SEVERE	
Iron	ppm	ASTM D5185m	>500	<b>1505</b>	▲ 2387	
Chromium	ppm	ASTM D5185m	>10	<u> </u>	<u>^</u> 20	
Nickel	ppm	ASTM D5185m	>10	2	2	

## **WEAR**

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	<b>1505</b>	<b>2</b> 387	
Chromium	ppm	ASTM D5185m	>10	<u> </u>	<u>^</u> 20	
Nickel	ppm	ASTM D5185m	>10	2	2	
Titanium	ppm	ASTM D5185m		<u> </u>	12	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	<b>224</b>	234	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>50	4	4	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	

NONE

NONE

White Metal

Yellow Metal

scalar

scalar

\*Visual

\*Visual

NONE

NONE

MODER

NONE

## CONTAMINATION

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

Silicon	ppm	ASTM D5185m	>75	<b>1</b> 725	<b>▲</b> 863	
Potassium	ppm	ASTM D5185m	>20	44	52	
Water	%	ASTM D6304	>0.2	<b>△</b> 0.202		
ppm Water	ppm	ASTM D6304	>2000	<u> </u>		
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	

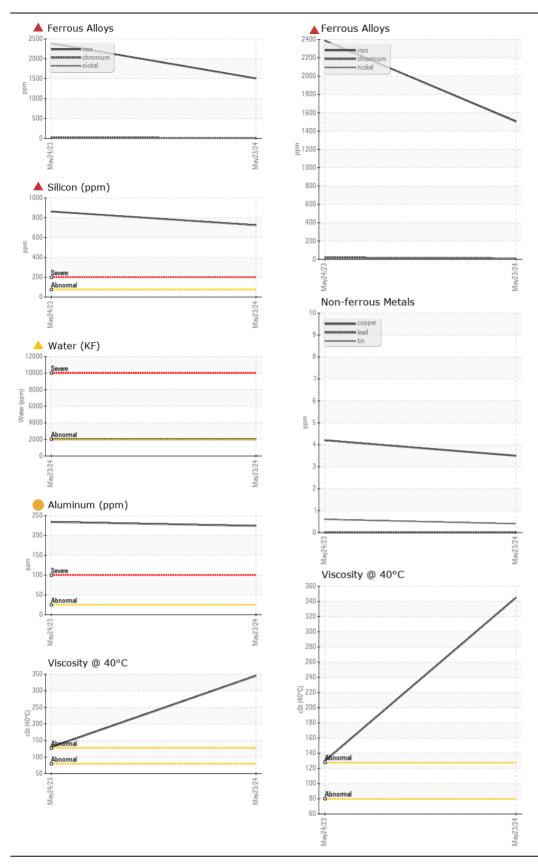
## FLUID CONDITION

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

Appearance	scalar	^Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	0.2%	NEG	
Sodium	ppm	ASTM D5185m		17	31	
Boron	ppm	ASTM D5185m		110	160	
Barium	ppm	ASTM D5185m		<1	<1	
Molybdenum	ppm	ASTM D5185m		<1	3	
Manganese	ppm	ASTM D5185m		10	16	
Magnesium	ppm	ASTM D5185m		12	25	
Calcium	ppm	ASTM D5185m		20	38	
Phosphorus	ppm	ASTM D5185m		1113	1250	
Zinc	ppm	ASTM D5185m		14	7	
Sulfur	ppm	ASTM D5185m		37707	33749	
Visc @ 40°C	cSt	ASTM D445		345	130	

Report Id: TRIBUR [WUSCAR] 06212636 (Generated: 06/21/2024 21:40:55) Rev: 1

Submitted By: RYAN ZEBALLOS







Certificate L2367

Laboratory Sample No.

Lab Number : 06212636

: ASC0011310

Unique Number : 11085500 Test Package : CONST ( Additional Tests: KF )

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** : 20 Jun 2024 Diagnosed

: 20 Jun 2024 - Jonathan Hester

TRIANGLE GRADING AND PAVING INC 1521 Huffman Mill Rd

BURLINGTON, NC US 27216

Contact: KAREN HILLIARD khilliard @triangle grading paving.com

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. T: (336)584-1745 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)584-0145