



ASCENDUM

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
Ascendum Machinery/500 Hour CSA
Machine Id
VOLVO EC300E 1848 (S/N 311167)
Component
Rear Right Final Drive
Fluid
NOT GIVEN (--- GAL)

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.

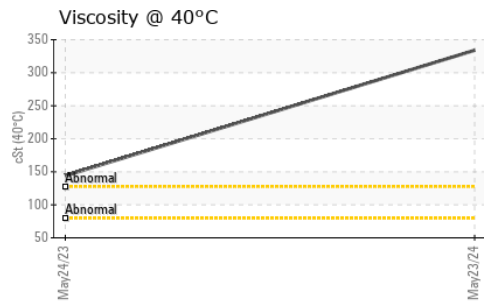
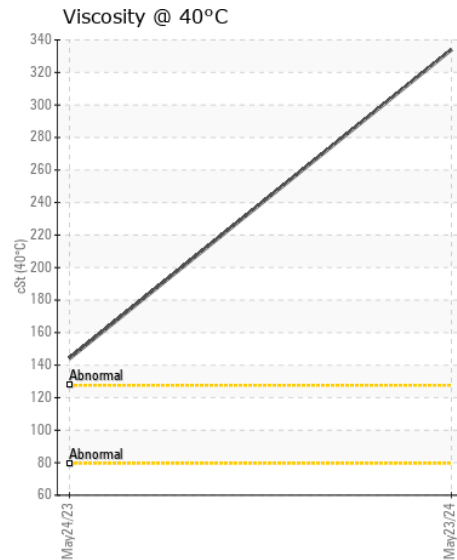
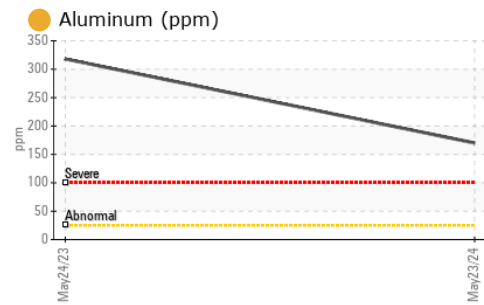
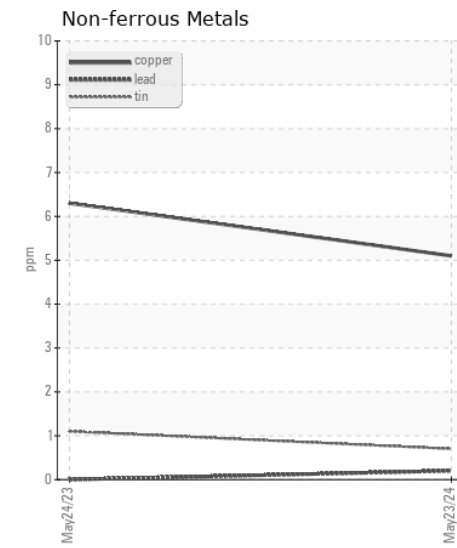
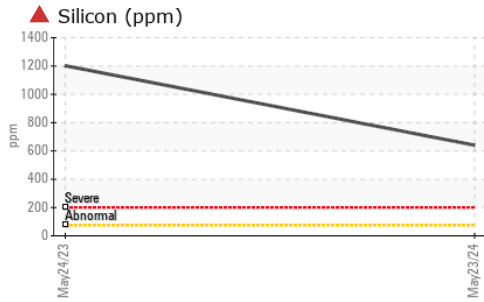
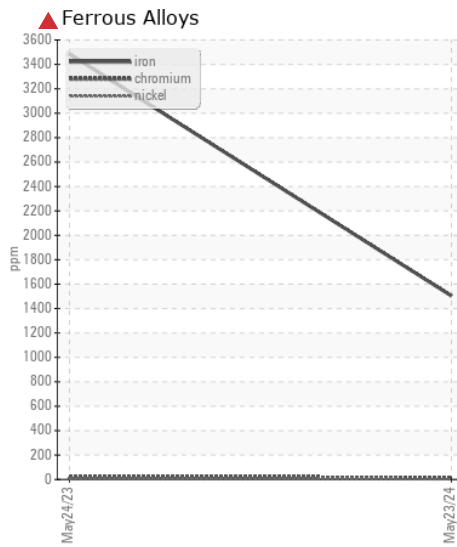
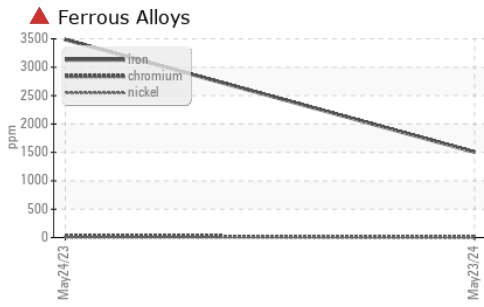
CONTAMINATION

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

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0011333	VCP389655	---
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	Not Changed	---
Sample Status				SEVERE	SEVERE	---
Iron	ppm	ASTM D5185m	>500	▲ 1504	▲ 3485	---
Chromium	ppm	ASTM D5185m	>10	▲ 12	▲ 26	---
Nickel	ppm	ASTM D5185m	>10	2	3	---
Titanium	ppm	ASTM D5185m		▲ 11	19	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	● 170	● 318	---
Lead	ppm	ASTM D5185m	>25	<1	0	---
Copper	ppm	ASTM D5185m	>50	5	6	---
Tin	ppm	ASTM D5185m	>10	<1	1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	MODER	▲ MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ 640	▲ 1202	---
Potassium	ppm	ASTM D5185m	>20	33	58	---
Water		WC Method	>0.2	NEG	NEG	---
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	NEG	0.2%	---
Sodium	ppm	ASTM D5185m		18	39	---
Boron	ppm	ASTM D5185m		84	125	---
Barium	ppm	ASTM D5185m		<1	<1	---
Molybdenum	ppm	ASTM D5185m		1	5	---
Manganese	ppm	ASTM D5185m		11	23	---
Magnesium	ppm	ASTM D5185m		13	28	---
Calcium	ppm	ASTM D5185m		47	47	---
Phosphorus	ppm	ASTM D5185m		1106	1311	---
Zinc	ppm	ASTM D5185m		19	12	---
Sulfur	ppm	ASTM D5185m		37324	42369	---
Visc @ 40°C	cSt	ASTM D445		334	144	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0011333
Lab Number : 06212631
Unique Number : 11085495
Test Package : CONST

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@trianglegradingpaving.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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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