



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area

Ascendum Machinery

Machine Id

VOLVO EC250E EX-10 (S/N 314019)

Component

Right Travel

Fluid

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (1 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system.
 We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0008355	ASC0005089	ASC0001092
Sample Date		Client Info		01 Jul 2024	21 Nov 2023	15 Aug 2023
Machine Age	hrs	Client Info		3493	3000	2539
Oil Age	hrs	Client Info		493	461	488
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		None	N/A	None
Sample Status				SEVERE	NORMAL	ABNORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>1200	▲ 3518	74	591
Chromium	ppm	ASTM D5185m	>20	▲ 38	<1	8
Nickel	ppm	ASTM D5185m	>5	4	0	<1
Titanium	ppm	ASTM D5185m		24	<1	5
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>100	● 336	1	● 82
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>50	3	3	<1
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

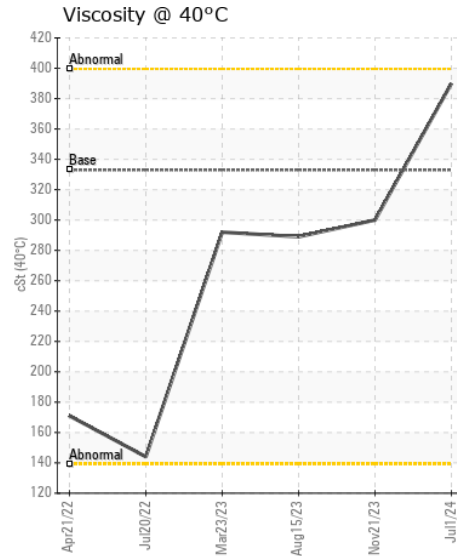
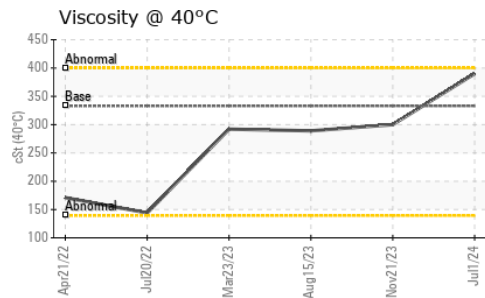
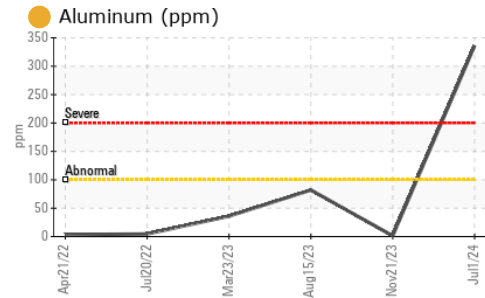
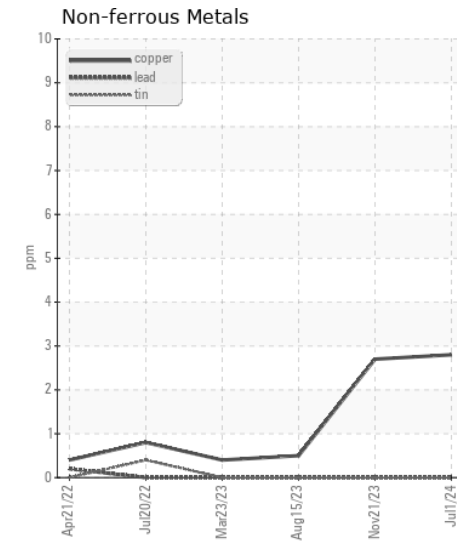
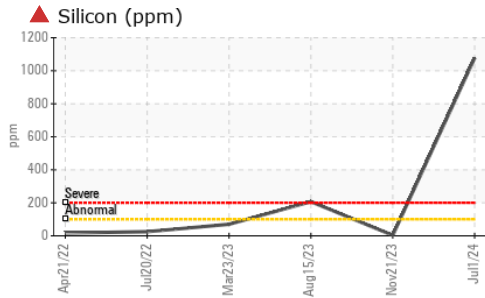
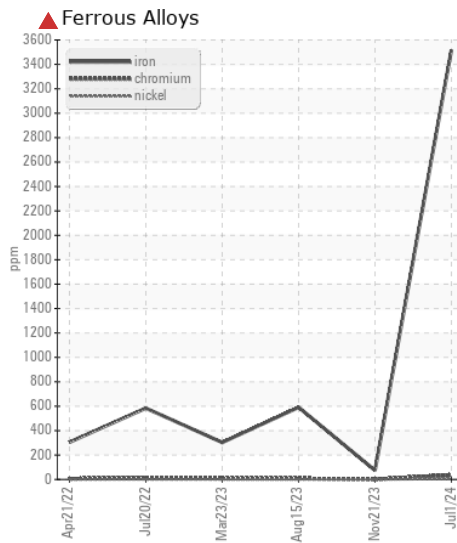
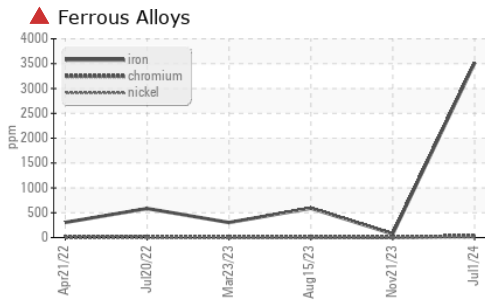
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>100	▲ 1077	3	▲ 207
Potassium	ppm	ASTM D5185m	>20	50	1	9
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.25	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		12	0	3
Boron	ppm	ASTM D5185m	111	180	252	195
Barium	ppm	ASTM D5185m	0.0	1	0	0
Molybdenum	ppm	ASTM D5185m	0.9	4	0	0
Manganese	ppm	ASTM D5185m	0.0	33	<1	6
Magnesium	ppm	ASTM D5185m	39	13	4	9
Calcium	ppm	ASTM D5185m	93	25	73	934
Phosphorus	ppm	ASTM D5185m	920	968	1019	898
Zinc	ppm	ASTM D5185m	104	0	24	290
Sulfur	ppm	ASTM D5185m	20179	29752	27748	21353
Visc @ 40°C	cSt	ASTM D445	333	390	300	289



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0008355
Lab Number : 06240791
Unique Number : 11129625
Test Package : CONST

Received : 18 Jul 2024
Tested : 19 Jul 2024
Diagnosed : 22 Jul 2024 - Don Baldrige

CAROLINA EXCAVATING
 1036 BRANCHVIEW DR, SUITE 106
 CONCORD, NC
 US 28025
 Contact: KEVIN LADGERWOOD
 kevin@carlinaexcavation.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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