



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
[41355 CHEROKEE]
Machine Id
VOLVO EC250EL 310021
Component
Swing Drive
Fluid
VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP444302	---	---
Sample Date		Client Info		13 Mar 2024	---	---
Machine Age	hrs	Client Info		6931	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	0	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	3	---	---
Lead	ppm	ASTM D5185m	>50	<1	---	---
Copper	ppm	ASTM D5185m	>50	0	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

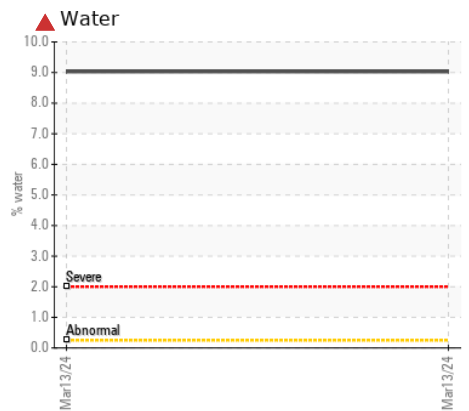
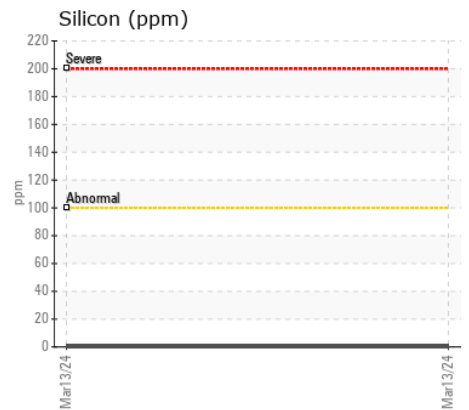
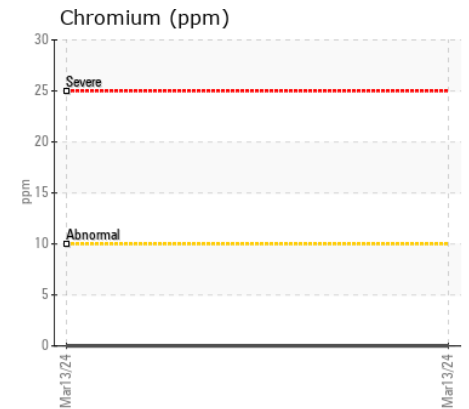
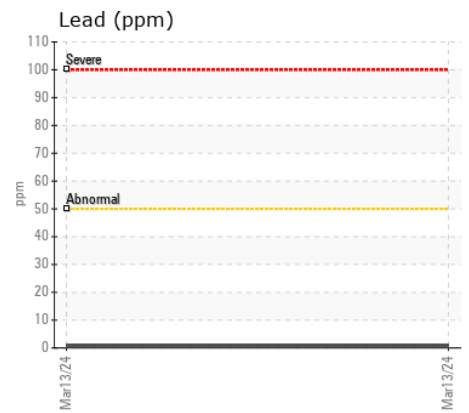
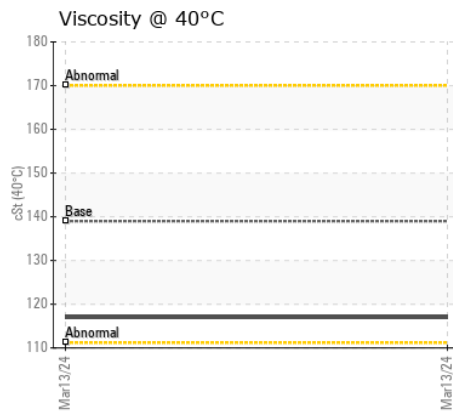
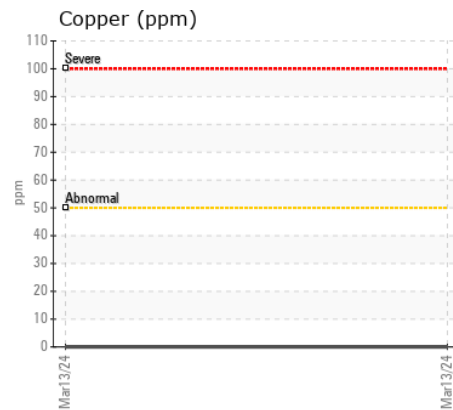
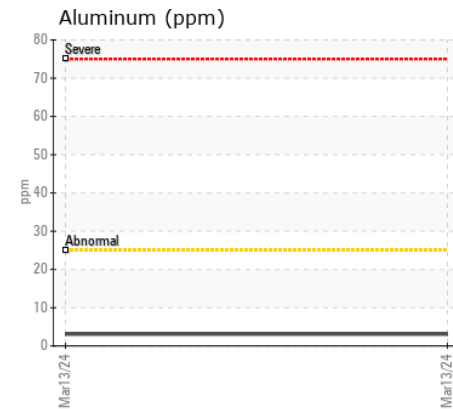
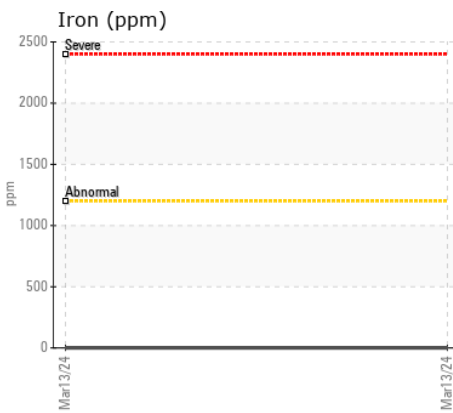
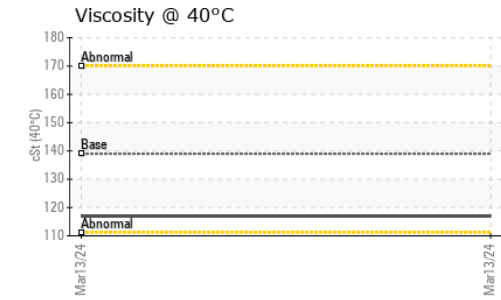
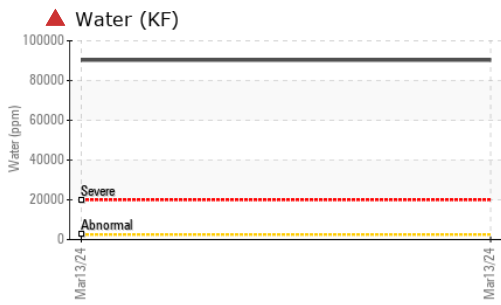
There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>100	<1	---	---
Potassium	ppm	ASTM D5185m	>20	9	---	---
Water	%	ASTM D6304	>0.25	▲ 9.03	---	---
ppm Water	ppm	ASTM D6304	>2500	▲ 90300	---	---
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%	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m	379	25	---	---
Barium	ppm	ASTM D5185m	0.0	0	---	---
Molybdenum	ppm	ASTM D5185m	0.8	0	---	---
Manganese	ppm	ASTM D5185m	0.0	0	---	---
Magnesium	ppm	ASTM D5185m	31	7	---	---
Calcium	ppm	ASTM D5185m	38	0	---	---
Phosphorus	ppm	ASTM D5185m	1077	116	---	---
Zinc	ppm	ASTM D5185m	46	0	---	---
Sulfur	ppm	ASTM D5185m	23526	3066	---	---
Visc @ 40°C	cSt	ASTM D445	139	117	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VCP444302

Lab Number : 06121171

Unique Number : 10930004

Test Package : MOB 1 (Additional Tests: KF)

Received : 18 Mar 2024

Tested : 19 Mar 2024

Diagnosed : 20 Mar 2024 - Don Baldrige

215 - ASCENDUM MACHINERY INC - CAYCE

2303 AIRPORT BLVD

CAYCE, SC

US 29033

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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)