



VOLVO

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE
SEVERE
ATTENTION



Area
[SPM701371]
Machine Id
VOLVO ECR235EL 310702
Component
Swing Drive
Fluid
GEAR OIL SAE 80W90 (--- 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

The copper level is severe. Bearing and/or bushing wear is indicated. Iron and chrome levels are severe. Gear wear is indicated.

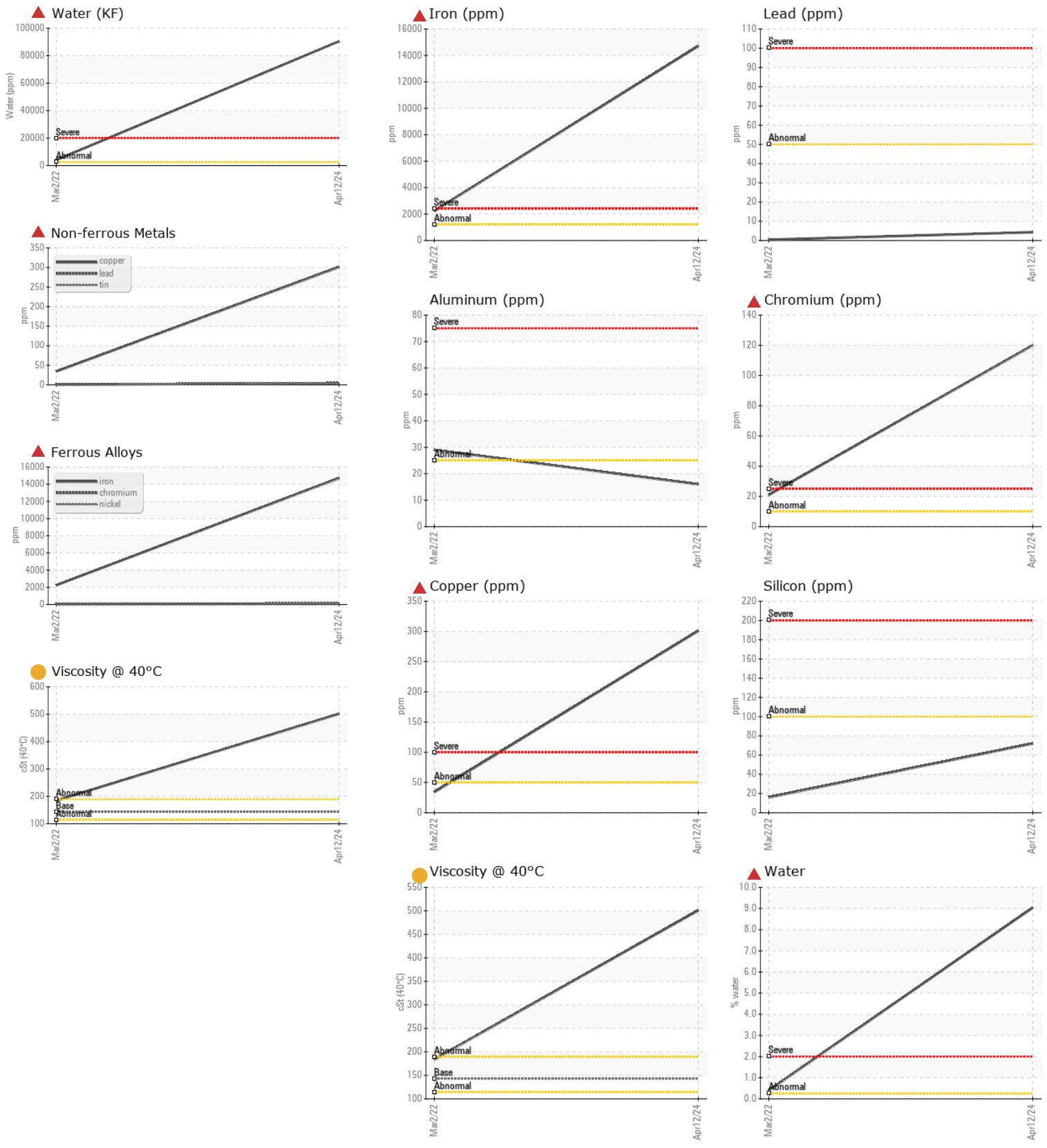
CONTAMINATION

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

FLUID CONDITION

Viscosity is higher than normal. The oil is no longer serviceable as a result of water and the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP443526	VCP350049	---
Sample Date		Client Info		12 Apr 2024	02 Mar 2022	---
Machine Age	hrs	Client Info		4256	3512	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				SEVERE	SEVERE	---
Iron	ppm	ASTM D5185m	>1200	▲ 14704	▲ 2233	---
Chromium	ppm	ASTM D5185m	>10	▲ 120	▲ 21	---
Nickel	ppm	ASTM D5185m	>10	8	2	---
Titanium	ppm	ASTM D5185m		6	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	16	29	---
Lead	ppm	ASTM D5185m	>50	4	<1	---
Copper	ppm	ASTM D5185m	>50	▲ 301	34	---
Tin	ppm	ASTM D5185m	>10	5	0	---
Vanadium	ppm	ASTM D5185m		1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>100	72	16	---
Potassium	ppm	ASTM D5185m	>20	3	6	---
Water	%	ASTM D6304	>0.25	▲ 9.04	▲ 0.402	---
ppm Water	ppm	ASTM D6304	>2500	▲ 90400	▲ 4020	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	● HAZY	● HAZY	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.25	▲ 0.2%	▲ 0.2%	---
Sodium	ppm	ASTM D5185m	>170	4	0	---
Boron	ppm	ASTM D5185m	400	18	20	---
Barium	ppm	ASTM D5185m	200	<1	0	---
Molybdenum	ppm	ASTM D5185m	12	27	4	---
Manganese	ppm	ASTM D5185m		134	20	---
Magnesium	ppm	ASTM D5185m	12	59	7	---
Calcium	ppm	ASTM D5185m	150	43	6	---
Phosphorus	ppm	ASTM D5185m	1650	2488	601	---
Zinc	ppm	ASTM D5185m	125	199	64	---
Sulfur	ppm	ASTM D5185m	22500	16679	8931	---
Visc @ 40°C	cSt	ASTM D445	143	● 501	184	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP443526 **Received** : 19 Apr 2024
Lab Number : 06154801 **Tested** : 23 Apr 2024
Unique Number : 10990224 **Diagnosed** : 23 Apr 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: KF)

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:

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)