



VOLVO

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Machine Id
VOLVO ECR235E 314041
Component
Rear Left Final Drive
Fluid
{not provided} (--- 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.

WEAR

Gear wear is indicated.

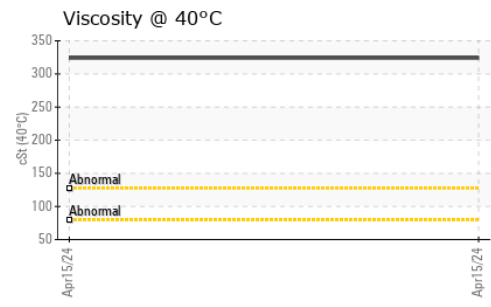
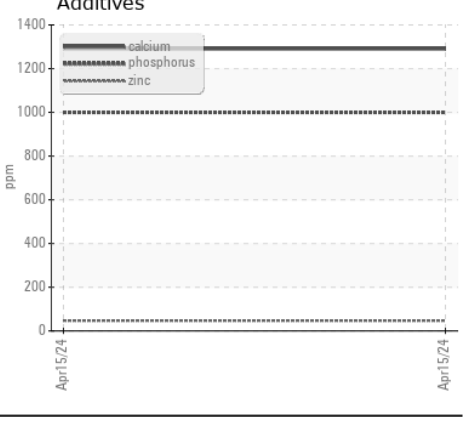
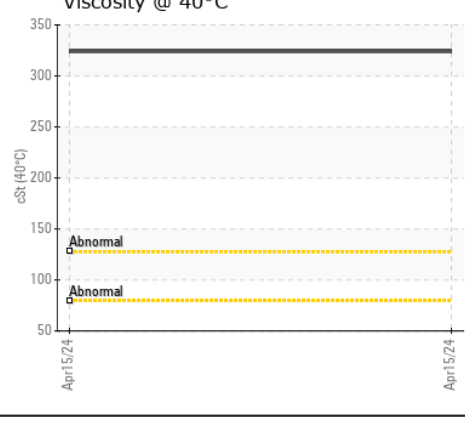
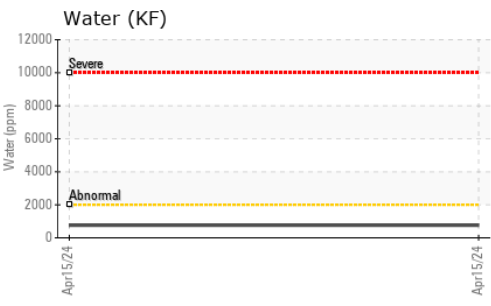
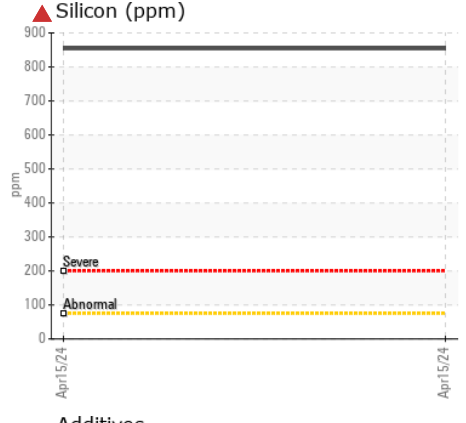
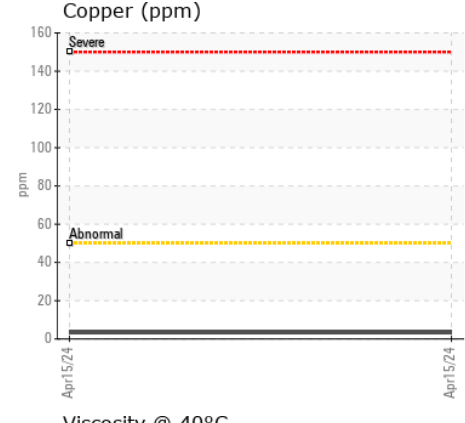
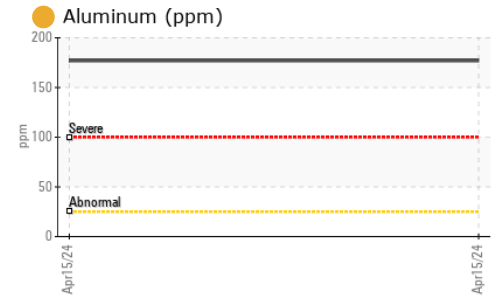
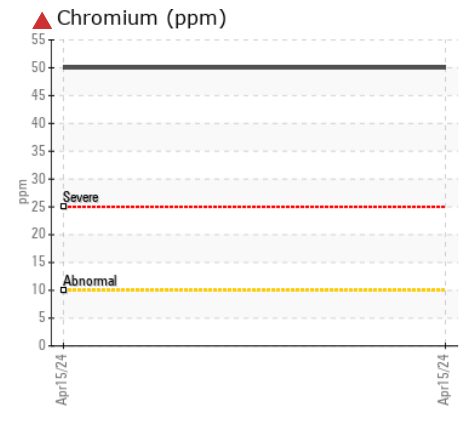
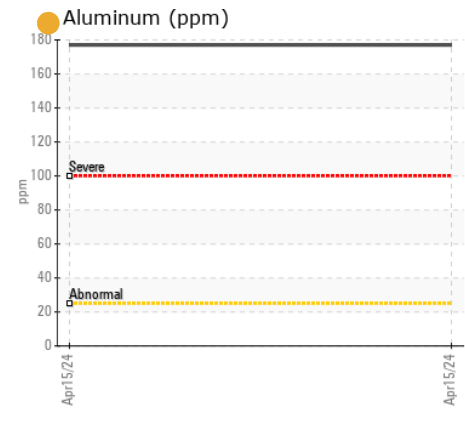
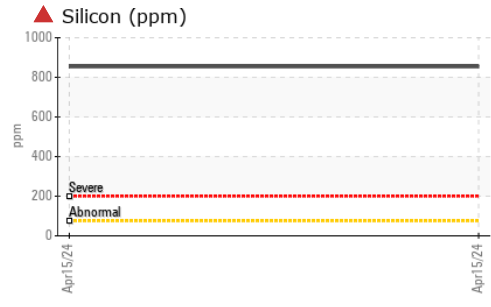
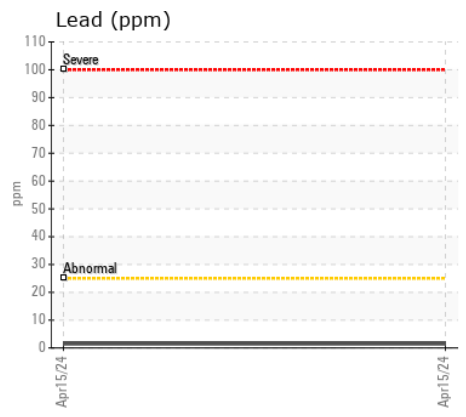
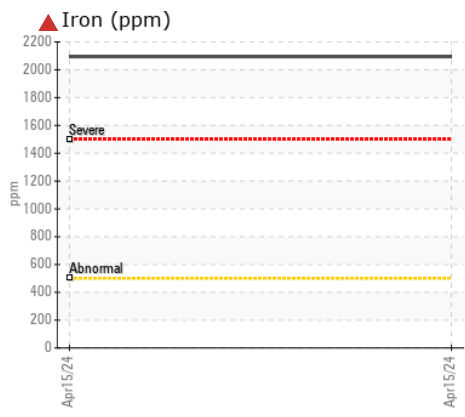
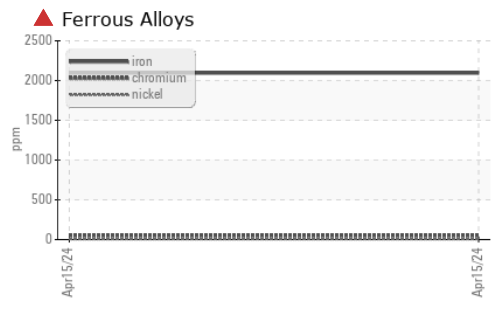
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible.

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		VCP0007802	---	---
Sample Date		Client Info		15 Apr 2024	---	---
Machine Age	hrs	Client Info		1748	---	---
Oil Age	hrs	Client Info		1748	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>500	▲ 2095	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 50	---	---
Nickel	ppm	ASTM D5185m	>10	6	---	---
Titanium	ppm	ASTM D5185m		14	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>25	● 177	---	---
Lead	ppm	ASTM D5185m	>25	2	---	---
Copper	ppm	ASTM D5185m	>50	3	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 854	---	---
Potassium	ppm	ASTM D5185m	>20	41	---	---
Water	%	ASTM D6304	>0.2	0.076	---	---
ppm Water	ppm	ASTM D6304	>2000	760	---	---
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	>0.2	0.2%	---	---
Sodium	ppm	ASTM D5185m		76	---	---
Boron	ppm	ASTM D5185m		100	---	---
Barium	ppm	ASTM D5185m		2	---	---
Molybdenum	ppm	ASTM D5185m		6	---	---
Manganese	ppm	ASTM D5185m		26	---	---
Magnesium	ppm	ASTM D5185m		36	---	---
Calcium	ppm	ASTM D5185m		1291	---	---
Phosphorus	ppm	ASTM D5185m		1000	---	---
Zinc	ppm	ASTM D5185m		47	---	---
Sulfur	ppm	ASTM D5185m		30793	---	---
Visc @ 40°C	cSt	ASTM D445		324	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP0007802 **Received** : 17 Apr 2024
Lab Number : 06152366 **Tested** : 22 Apr 2024
Unique Number : 10982444 **Diagnosed** : 22 Apr 2024 - Sean Felton
Test Package : MOBCE (Additional Tests: KF)

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Certificate L2367
 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)