



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL

SEVERE

NORMAL



Machine Id
VOLVO EC350E 314263
Component
Rear Left Final Drive
Fluid
MOBIL MOBILUBE HD 85W140 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: 500 hour service)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0886267	VCP344989	---
Sample Date		Client Info		12 Jan 2024	31 Mar 2022	---
Machine Age	hrs	Client Info		3511	1124	---
Oil Age	hrs	Client Info		500	0	---
Filter Age	hrs	Client Info		500	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Not Changed	---
Sample Status				SEVERE	SEVERE	---

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 1271	▲ 801	---
Chromium	ppm	ASTM D5185m	>10	10	▲ 13	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		6	9	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	▲ 44	▲ 104	---
Lead	ppm	ASTM D5185m	>25	0	0	---
Copper	ppm	ASTM D5185m	>50	3	2	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

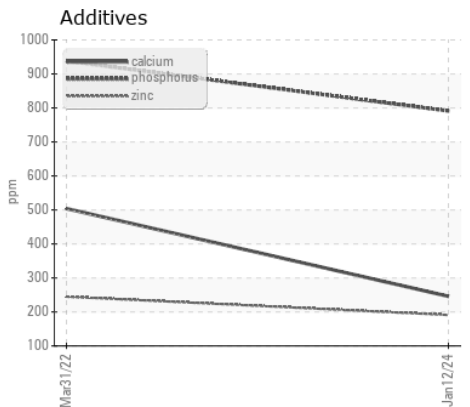
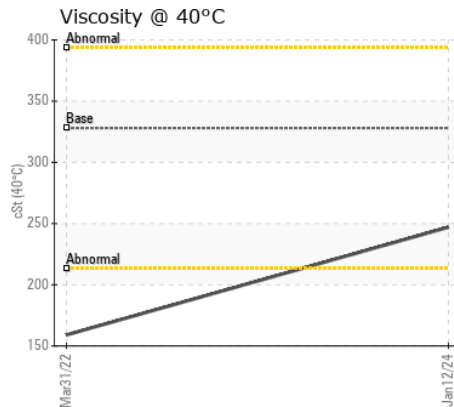
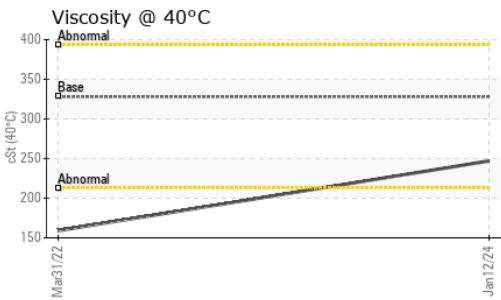
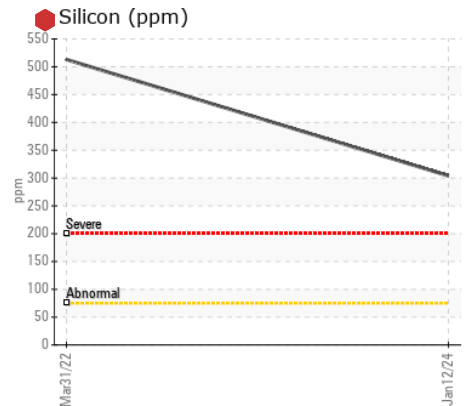
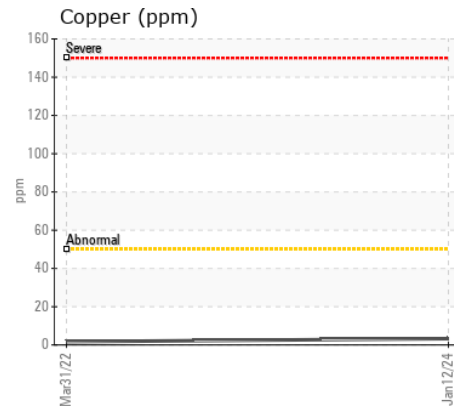
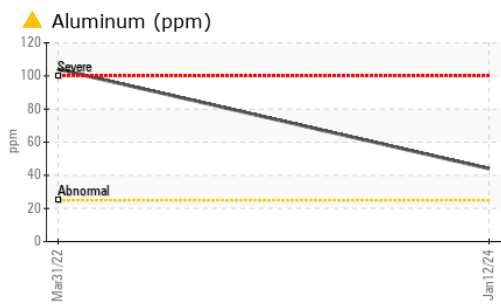
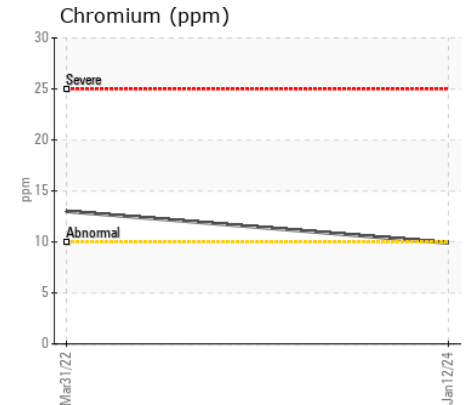
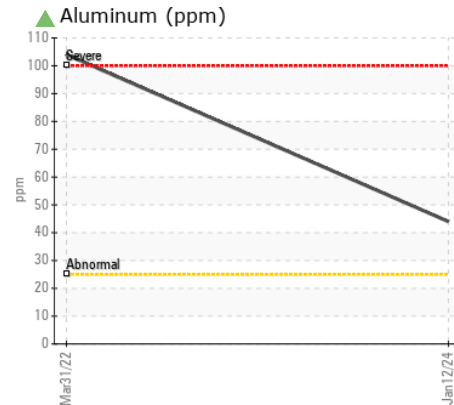
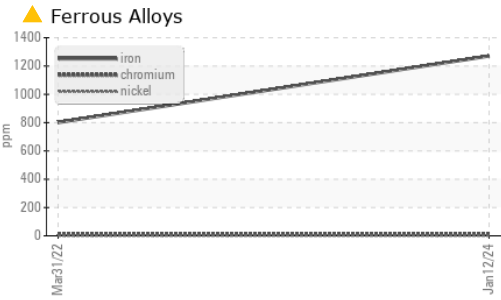
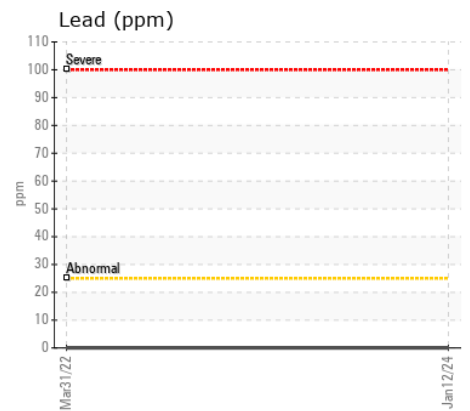
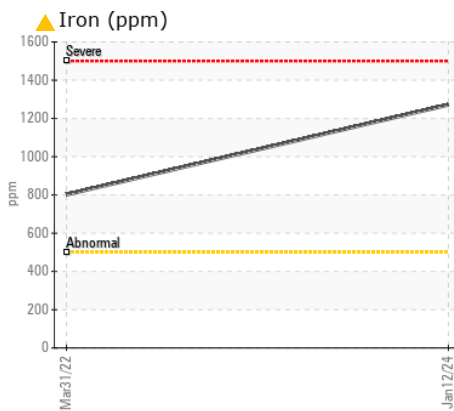
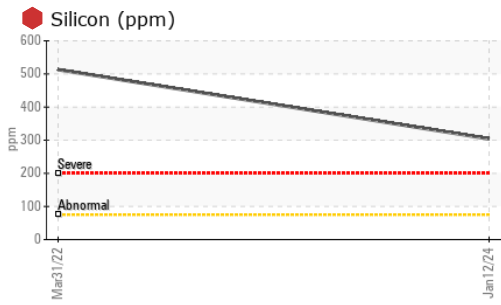
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	◆ 304	◆ 513	---
Potassium	ppm	ASTM D5185m	>20	11	27	---
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	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	9	---
Boron	ppm	ASTM D5185m		87	133	---
Barium	ppm	ASTM D5185m		3	0	---
Molybdenum	ppm	ASTM D5185m		12	14	---
Manganese	ppm	ASTM D5185m		7	8	---
Magnesium	ppm	ASTM D5185m		119	117	---
Calcium	ppm	ASTM D5185m		246	504	---
Phosphorus	ppm	ASTM D5185m		791	938	---
Zinc	ppm	ASTM D5185m		191	245	---
Sulfur	ppm	ASTM D5185m		28256	18837	---
Visc @ 40°C	cSt	ASTM D445	328	247	159	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0886267 **Received** : 17 Jan 2024
Lab Number : 06063200 **Diagnosed** : 19 Jan 2024
Unique Number : 10834582 **Diagnostician** : Don Baldrige
Test Package : MOBCE

MCCLUNG-LOGAN EQUIPMENT CO - BALTIMORE
 4601 WASHINGTON BOULEVARD
 BALTIMORE, MD
 US 21227
 Contact: MARK CIULLA
 mciulla@mcclung-logan.com
 T: (410)242-6500
 F: (410)242-7835

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)