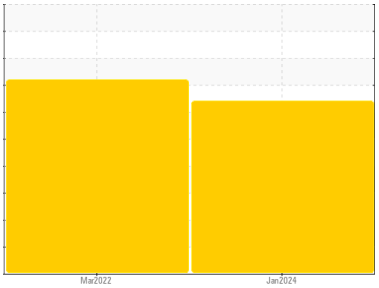
PROBLEM SUMMARY

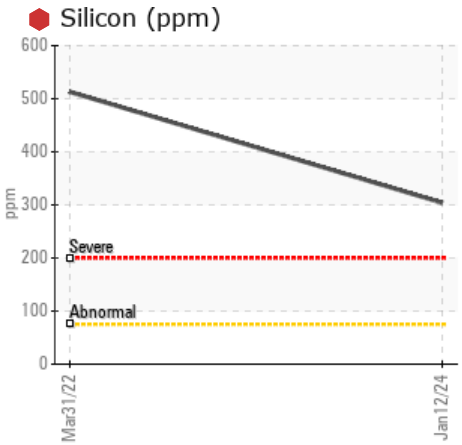
Sample Rating Trend

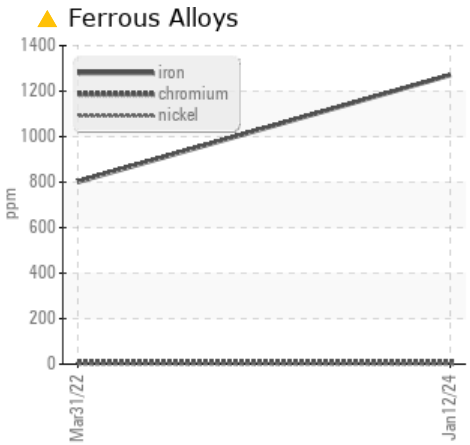


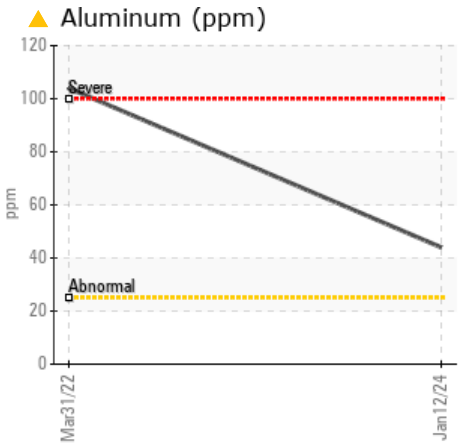
DIRT

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

COMPONENT CONDITION SUMMARY







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)

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	---
Iron	ppm	ASTM D5185m	>500	▲ **1271**	▲ 801	---
Silicon	ppm	ASTM D5185m	>75	⬢ **304**	⬢ 513	---

Customer Id: VOLVO0150
Sample No.: WC0886267
Lab Number: 06063200
Test Package: MOBCE

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

31 Mar 2022 Diag: Don Baldridge

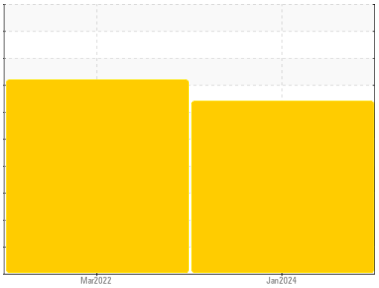
DIRT

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.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

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

DIAGNOSIS

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)

Wear
Gear wear is indicated.

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

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

SAMPLE INFORMATION		method	limit/base	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	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**SEVERE**	SEVERE	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
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	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

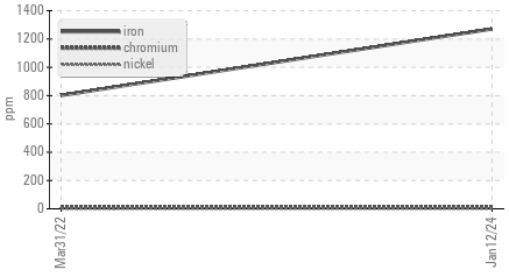
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**87**	133	---
Barium	ppm	ASTM D5185m		**3**	0	---
Molybdenum	ppm	ASTM D5185m		**12**	14	---
Manganese	ppm	ASTM D5185m		**7**	8	---
Magnesium	ppm	ASTM D5185m		**119**	117	---
Calcium	ppm	ASTM D5185m		**246**	504	---
Phosphorus	ppm	ASTM D5185m		**791**	938	---
Zinc	ppm	ASTM D5185m		**191**	245	---
Sulfur	ppm	ASTM D5185m		**28256**	18837	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	● **304**	● 513	---
Sodium	ppm	ASTM D5185m		**0**	9	---
Potassium	ppm	ASTM D5185m	>20	**11**	27	---

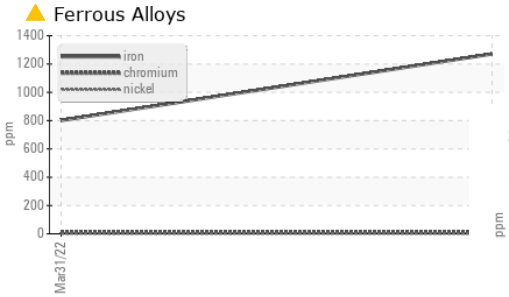
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	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	---
Free Water	scalar	*Visual		**NEG**	NEG	---

OIL ANALYSIS REPORT

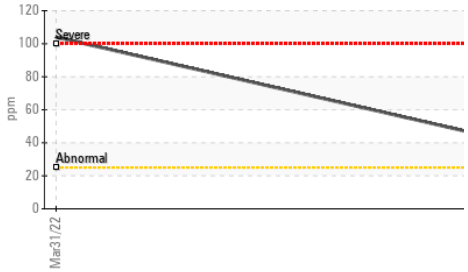
Ferrous Alloys



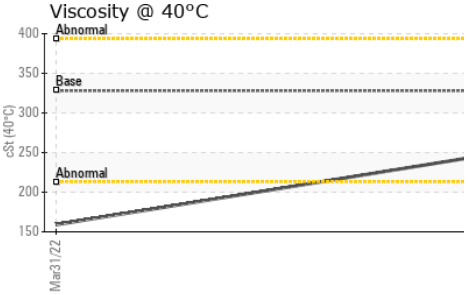
Ferrous Alloys



Aluminum (ppm)



Viscosity @ 40°C

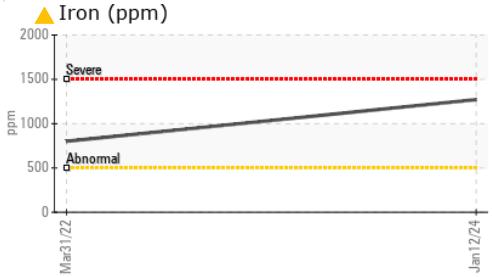


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	328	**247**	159	---

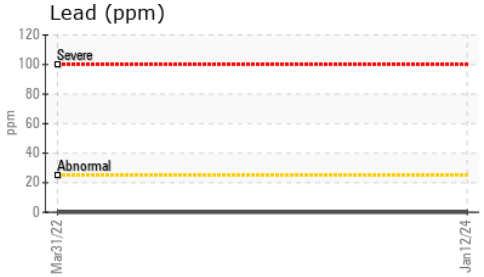
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

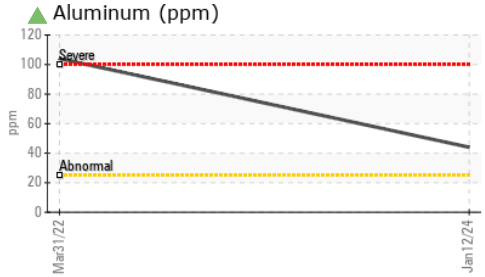
Iron (ppm)



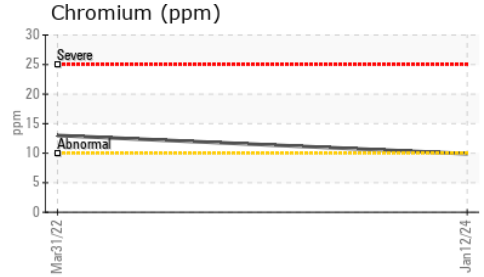
Lead (ppm)



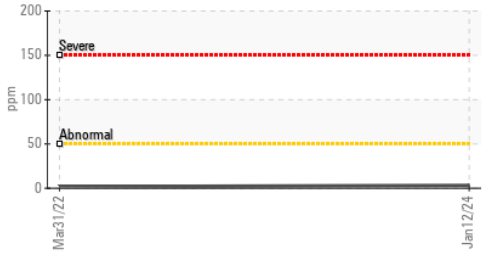
Aluminum (ppm)



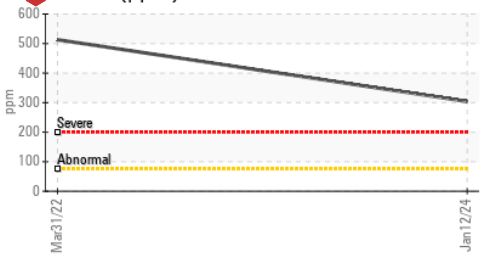
Chromium (ppm)



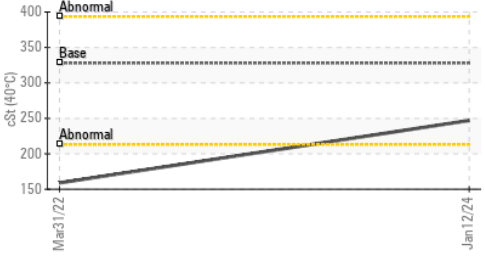
Copper (ppm)



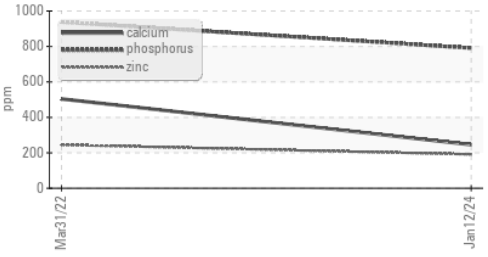
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0886267
Lab Number : 06063200
Unique Number : 10834582
Test Package : MOBCE

Recieved : 17 Jan 2024
Diagnosed : 19 Jan 2024
Diagnostician : Don Baldridge

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)

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