



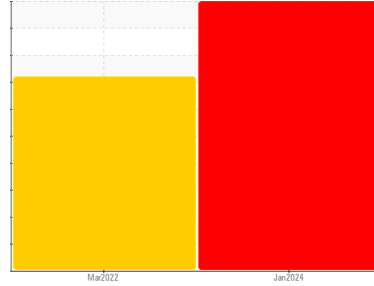
PROBLEM SUMMARY

Sample Rating Trend

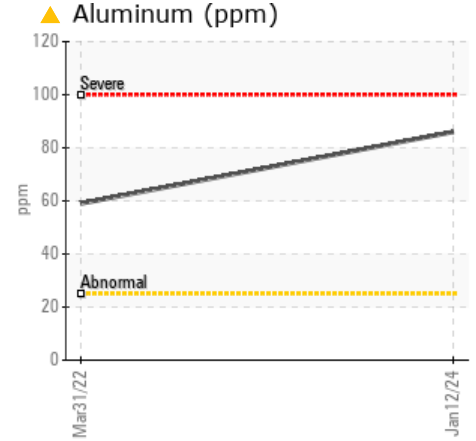
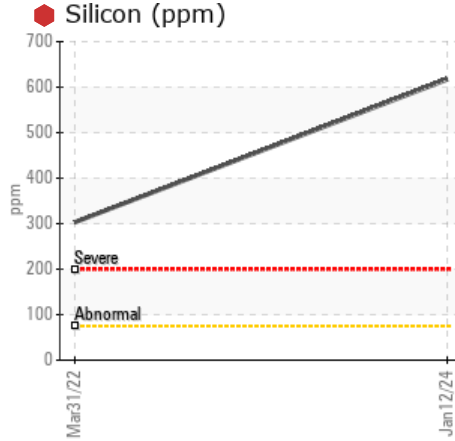
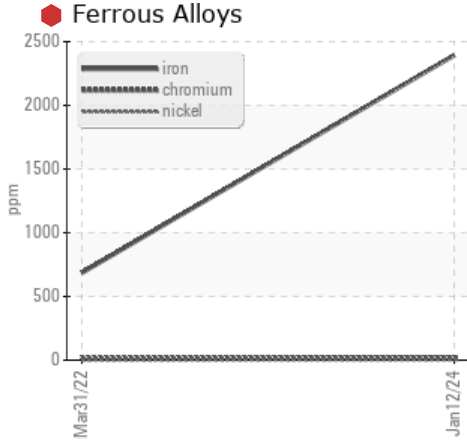
WEAR



Machine Id
VOLVO EC350E 314263
Component
Rear Right 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 advise that you inspect for the source(s) of wear. 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	2393	685	---
Chromium	ppm	ASTM D5185m	>10	21	12	---
Silicon	ppm	ASTM D5185m	>75	617	303	---

Customer Id: VOLVO0150
Sample No.: WC0886268
Lab Number: 06063201
Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
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 Baldrige

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

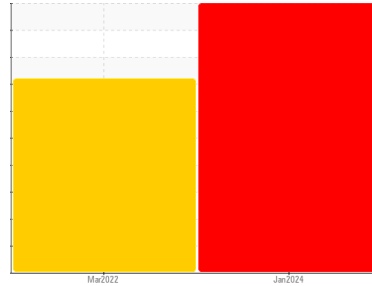




OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
VOLVO EC350E 314263
 Component
Rear Right 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 advise that you inspect for the source(s) of wear. 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		WC0886268	VCP358598	---
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	2393	685	---
Chromium	ppm	ASTM D5185m >10	21	12	---
Nickel	ppm	ASTM D5185m >10	2	<1	---
Titanium	ppm	ASTM D5185m	10	6	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	86	59	---
Lead	ppm	ASTM D5185m >25	0	0	---
Copper	ppm	ASTM D5185m >50	4	1	---
Tin	ppm	ASTM D5185m >10	0	0	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	94	156	---
Barium	ppm	ASTM D5185m	3	0	---
Molybdenum	ppm	ASTM D5185m	14	16	---
Manganese	ppm	ASTM D5185m	15	7	---
Magnesium	ppm	ASTM D5185m	136	135	---
Calcium	ppm	ASTM D5185m	274	582	---
Phosphorus	ppm	ASTM D5185m	765	1023	---
Zinc	ppm	ASTM D5185m	200	283	---
Sulfur	ppm	ASTM D5185m	28415	19759	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	617	303	---
Sodium	ppm	ASTM D5185m	<1	6	---
Potassium	ppm	ASTM D5185m >20	23	14	---

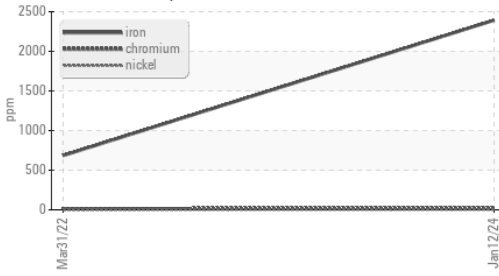
VISUAL

	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	---

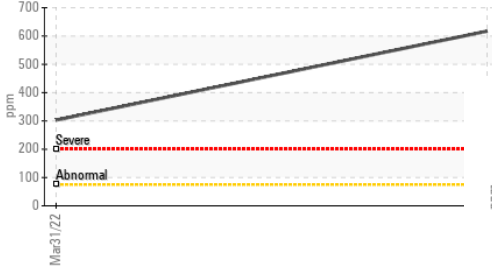


OIL ANALYSIS REPORT

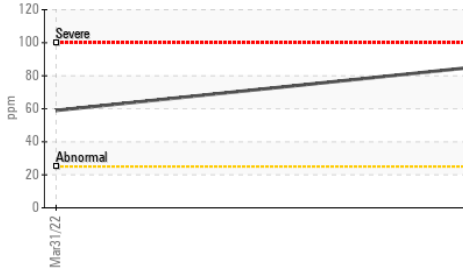
Ferrous Alloys



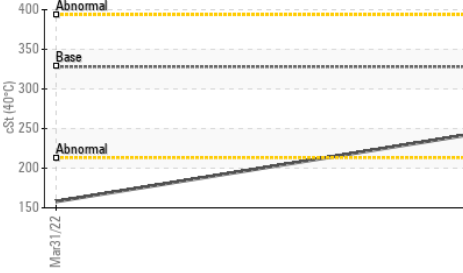
Silicon (ppm)



Aluminum (ppm)



Viscosity @ 40°C



FLUID PROPERTIES

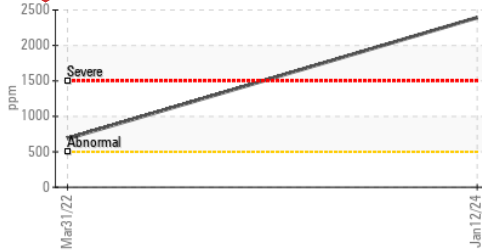
method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D445	328	246	158	---

SAMPLE IMAGES

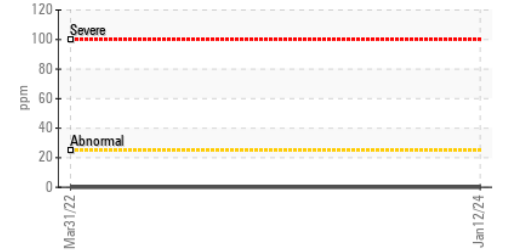
method	limit/base	current	history1	history2	
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

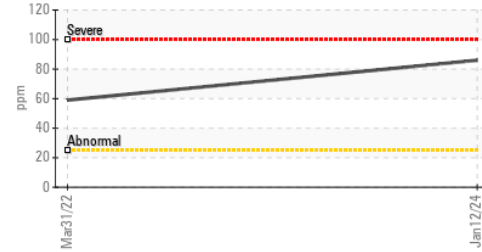
Iron (ppm)



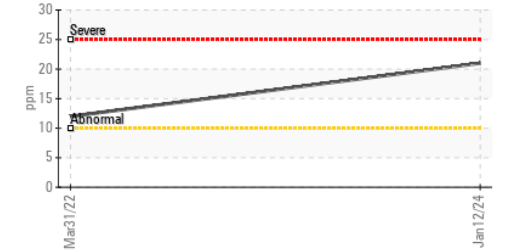
Lead (ppm)



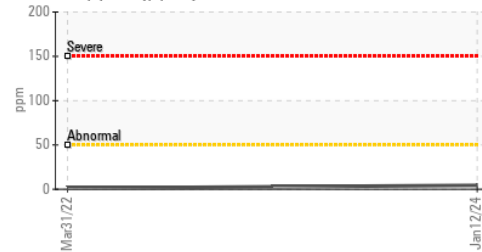
Aluminum (ppm)



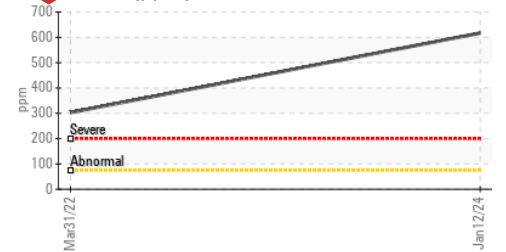
Chromium (ppm)



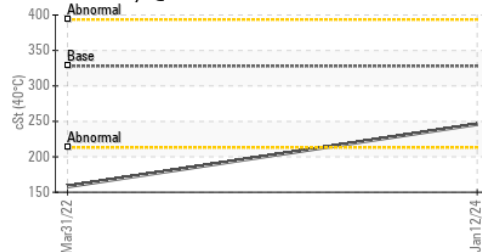
Copper (ppm)



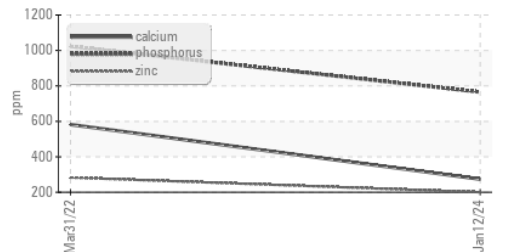
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0886268 Recieved : 17 Jan 2024
 Lab Number : 06063201 Diagnosed : 19 Jan 2024
 Unique Number : 10834583 Diagnostician : Don Baldrige
 Test Package : MOBCE

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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)