



VOLVO

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE
SEVERE
ATTENTION



Area

[25641]

Machine Id

VOLVO EC350E 314526

Component

Rear Right Final Drive

Fluid

VOLVO SUPER GEAR OIL 75W-80-GO102 (--- 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 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

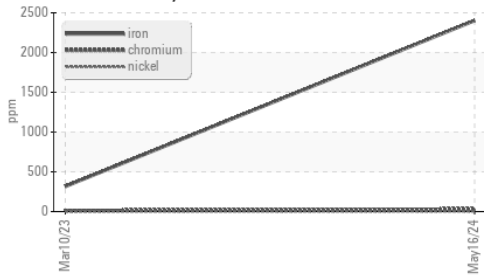
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

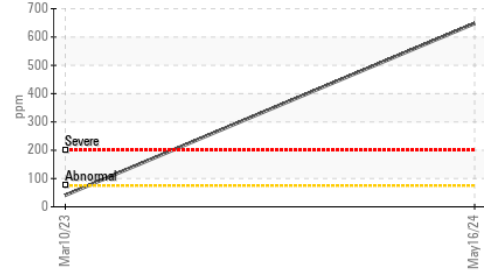
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP451069	VCP05792359	---
Sample Date		Client Info		16 May 2024	10 Mar 2023	---
Machine Age	hrs	Client Info		2086	400	---
Oil Age	hrs	Client Info		0	500	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				SEVERE	NORMAL	---
Iron	ppm	ASTM D5185m	>500	▲ 2403	316	---
Chromium	ppm	ASTM D5185m	>10	▲ 31	12	---
Nickel	ppm	ASTM D5185m	>10	2	0	---
Titanium	ppm	ASTM D5185m		11	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	● 90	7	---
Lead	ppm	ASTM D5185m	>25	0	0	---
Copper	ppm	ASTM D5185m	>50	5	0	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ 648	41	---
Potassium	ppm	ASTM D5185m	>20	4	<1	---
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	---
Sodium	ppm	ASTM D5185m		2	1	---
Boron	ppm	ASTM D5185m		187	<1	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		4	<1	---
Manganese	ppm	ASTM D5185m		15	7	---
Magnesium	ppm	ASTM D5185m		2	2	---
Calcium	ppm	ASTM D5185m		● 9	58	---
Phosphorus	ppm	ASTM D5185m		2241	300	---
Zinc	ppm	ASTM D5185m		6	13	---
Sulfur	ppm	ASTM D5185m		35033	15799	---
Visc @ 40°C	cSt	ASTM D445		55.1	176	---

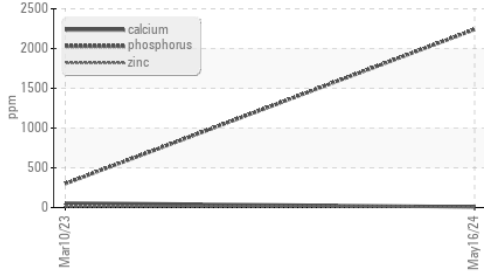
▲ Ferrous Alloys



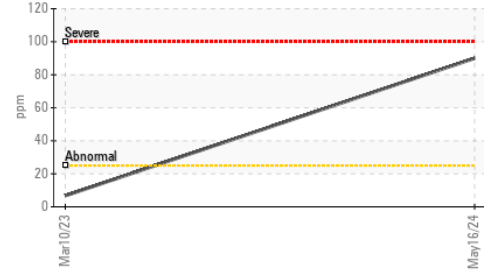
▲ Silicon (ppm)



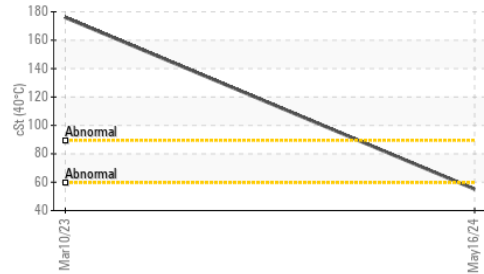
● Additives



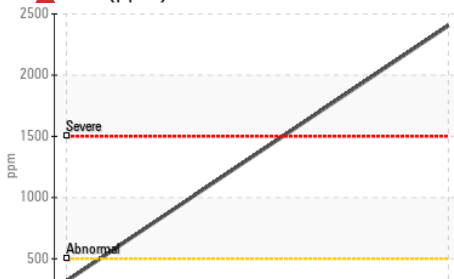
● Aluminum (ppm)



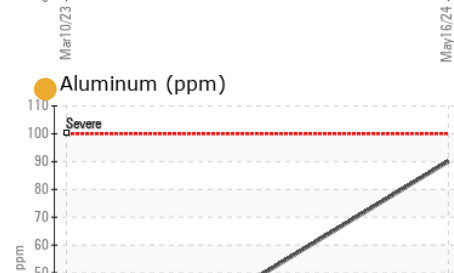
Viscosity @ 40°C



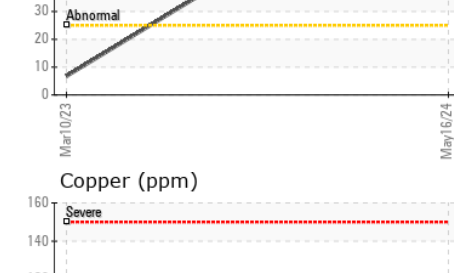
▲ Iron (ppm)



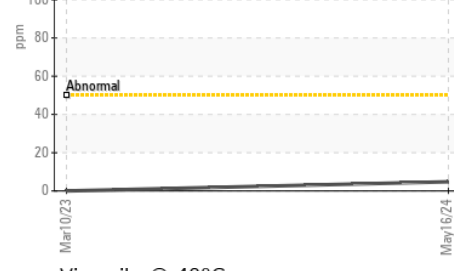
● Aluminum (ppm)



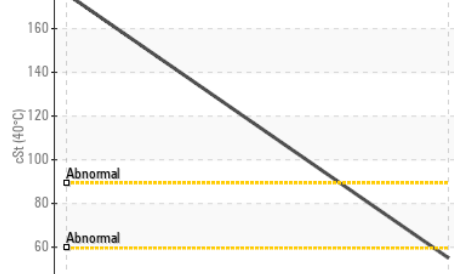
▲ Chromium (ppm)



▲ Silicon (ppm)



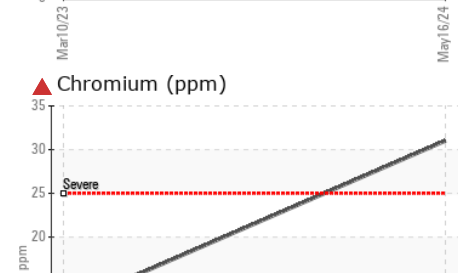
Viscosity @ 40°C



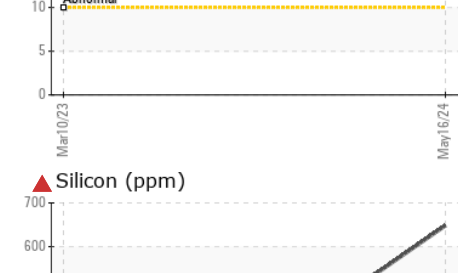
Lead (ppm)



▲ Chromium (ppm)



▲ Silicon (ppm)



● Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP451069
Lab Number : 06186553
Unique Number : 11043305
Test Package : MOB 1

Received : 21 May 2024
Tested : 22 May 2024
Diagnosed : 23 May 2024 - Don Baldrige

218 - ASCENDUM MACHINERY INC - N. CHARLESTON
 7235 CROSS COUNTRY RD.
 NORTH CHARLESTON, SC
 US 29418
 Contact: MATT MITCHAM
 matt.mitcham@ascendummachinery.com

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)

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