



# VOLVO

## OIL ANALYSIS REPORT

WEAR	<b>SEVERE</b>
CONTAMINATION	<b>SEVERE</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**[25682]**

Machine Id  
**VOLVO EC350 314419**

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP451072</b>	VCP405863	VCP404418
Sample Date		Client Info		<b>16 May 2024</b>	02 Aug 2023	21 Feb 2023
Machine Age	hrs	Client Info		<b>2020</b>	977	477
Oil Age	hrs	Client Info		<b>0</b>	1000	500
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>SEVERE</b>	NORMAL	NORMAL

### WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	<b>▲ 4120</b>	230	207
Chromium	ppm	ASTM D5185m	>10	<b>▲ 55</b>	8	8
Nickel	ppm	ASTM D5185m	>10	<b>6</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>17</b>	1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<b>● 134</b>	4	3
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>50	<b>6</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

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

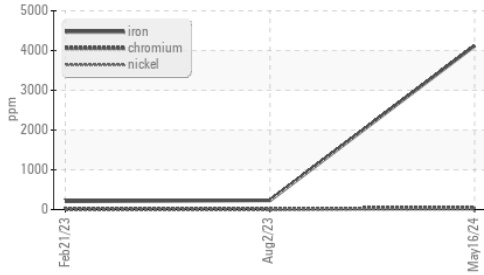
Silicon	ppm	ASTM D5185m	>75	<b>▲ 1096</b>	57	20
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	2	1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

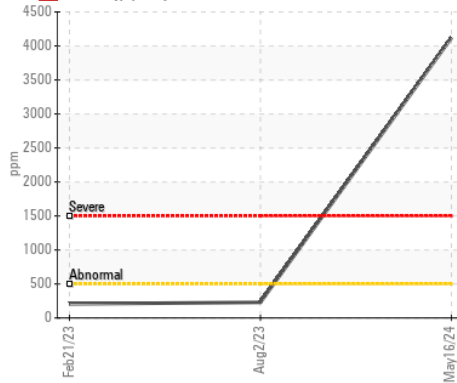
The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>2</b>	0	2
Boron	ppm	ASTM D5185m		<b>189</b>	199	0
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>7</b>	1	<1
Manganese	ppm	ASTM D5185m		<b>30</b>	3	4
Magnesium	ppm	ASTM D5185m		<b>4</b>	2	1
Calcium	ppm	ASTM D5185m		<b>15</b>	21	9
Phosphorus	ppm	ASTM D5185m		<b>2198</b>	1813	320
Zinc	ppm	ASTM D5185m		<b>27</b>	20	12
Sulfur	ppm	ASTM D5185m		<b>38525</b>	24822	15390
Visc @ 40°C	cSt	ASTM D445		<b>57.3</b>	64.3	169

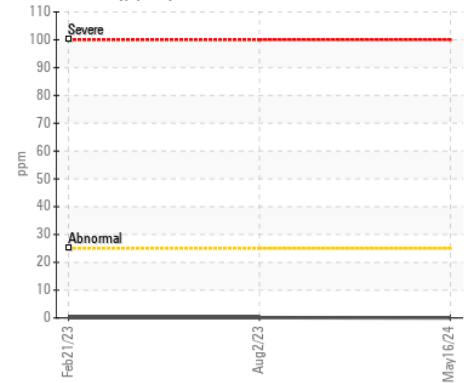
▲ Ferrous Alloys



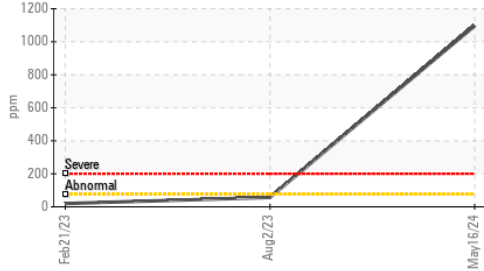
▲ Iron (ppm)



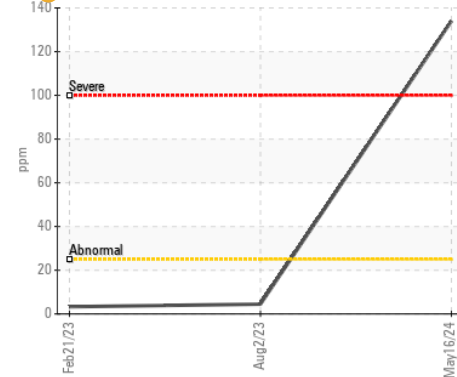
Lead (ppm)



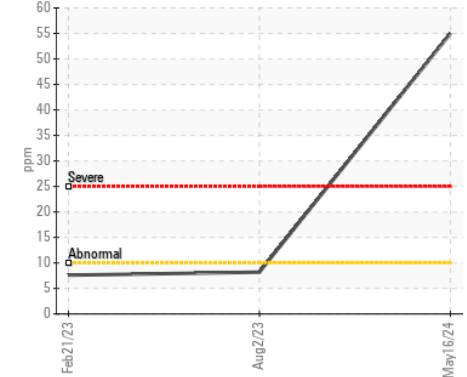
▲ Silicon (ppm)



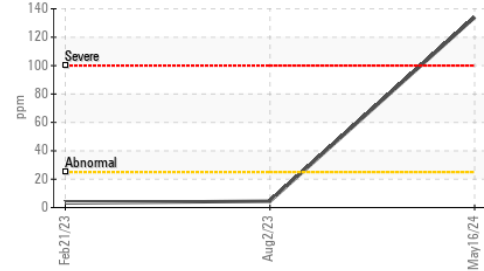
● Aluminum (ppm)



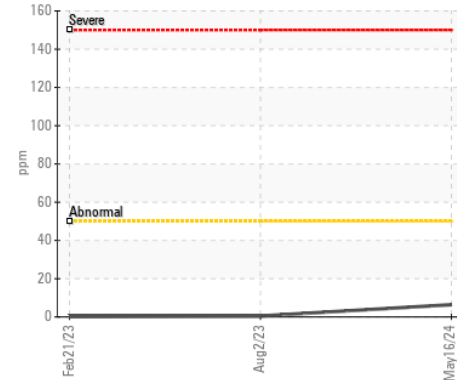
▲ Chromium (ppm)



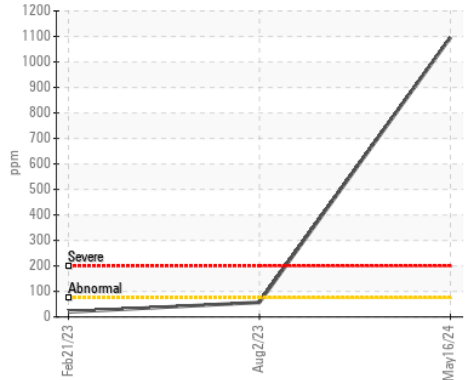
● Aluminum (ppm)



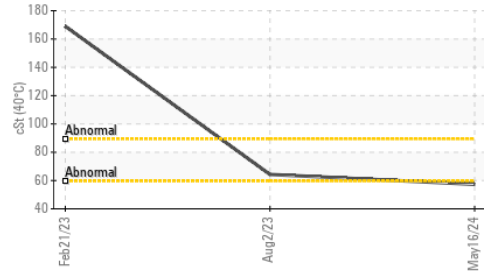
Copper (ppm)



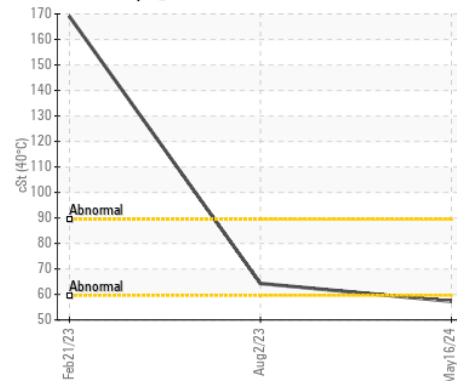
▲ Silicon (ppm)



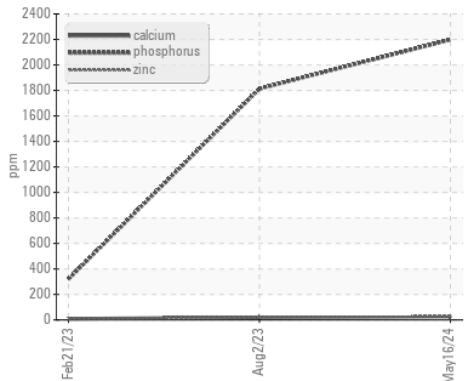
Viscosity @ 40°C



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VCP451072

Lab Number : 06186556

Unique Number : 11043308

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

T:

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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