



# VOLVO

## OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ABNORMAL**

**SEVERE**

**NORMAL**



Area

[W02008233]

Machine Id

**VOLVO EC300E 313052**

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.

### WEAR

Gear wear is indicated.

### CONTAMINATION

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

### FLUID CONDITION

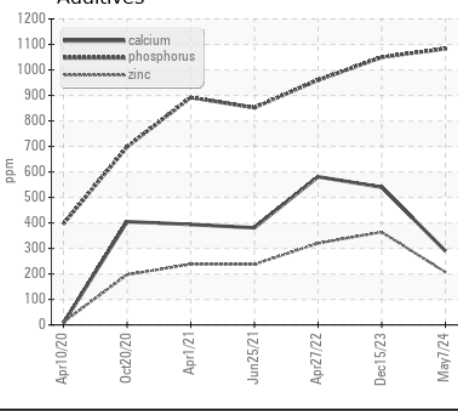
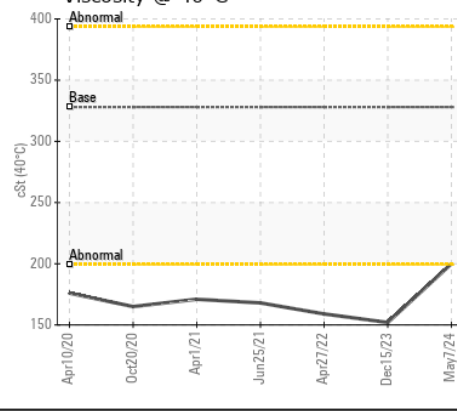
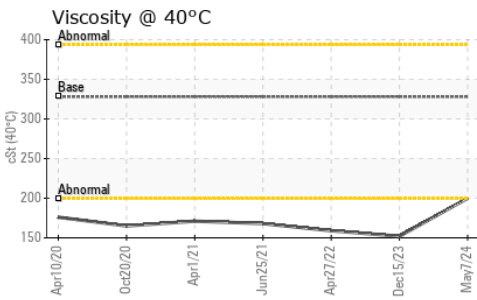
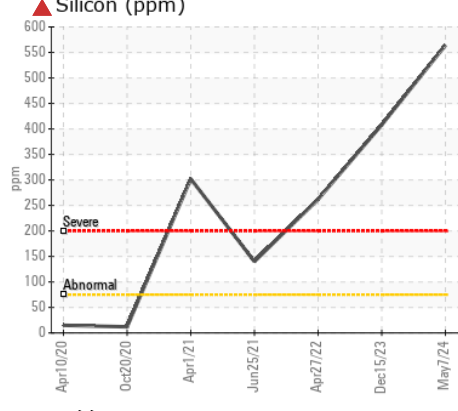
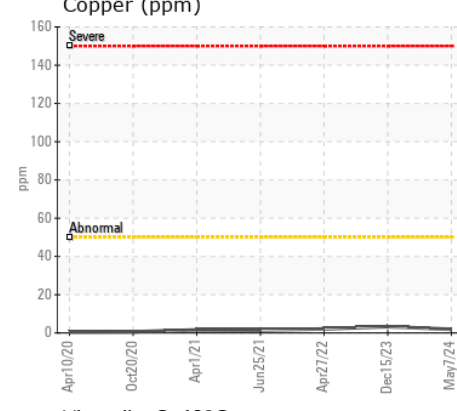
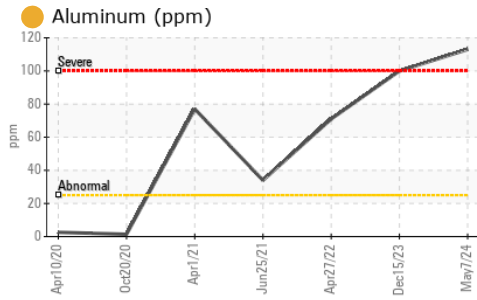
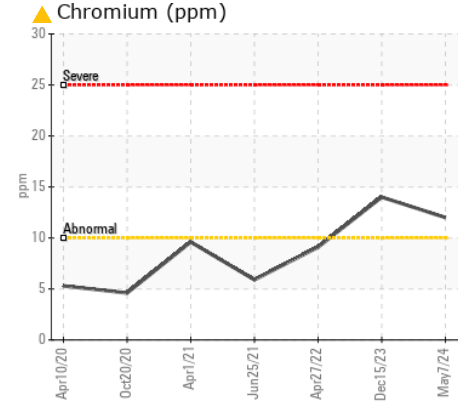
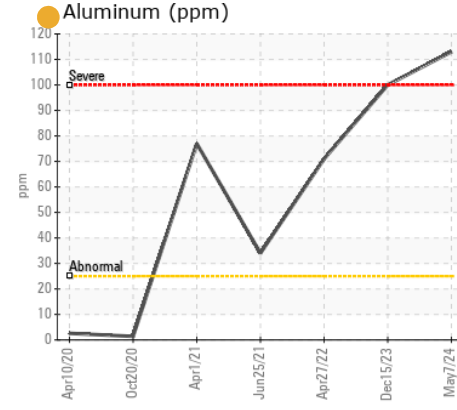
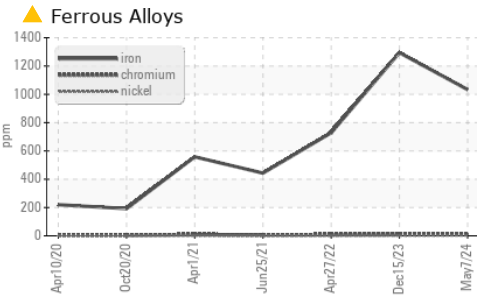
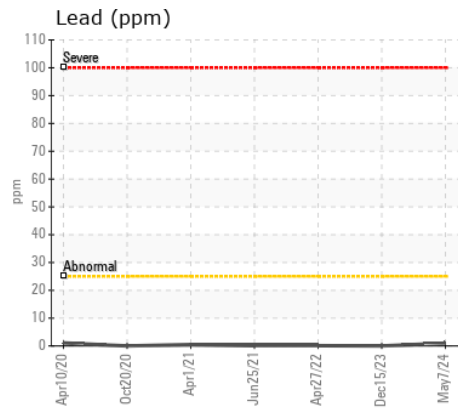
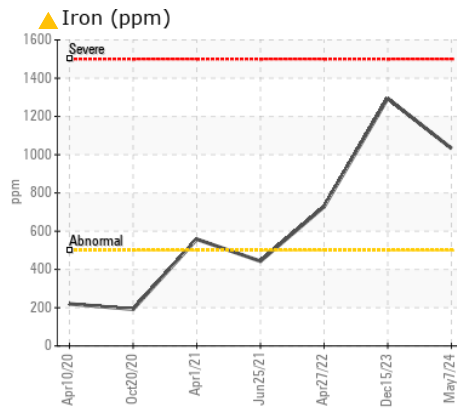
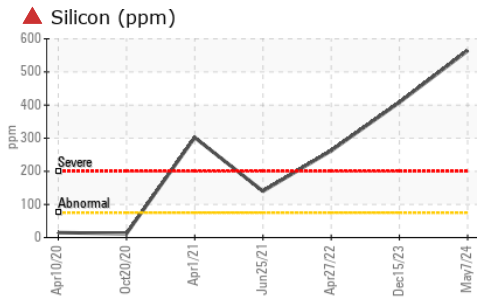
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP447928</b>	VCP189747	VCP319454
Sample Date		Client Info		<b>07 May 2024</b>	15 Dec 2023	27 Apr 2022
Machine Age	hrs	Client Info		<b>6650</b>	6051	3982
Oil Age	hrs	Client Info		<b>500</b>	500	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>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	SEVERE	SEVERE

Iron	ppm	ASTM D5185m	>500	<b>▲ 1033</b>	▲ 1294	▲ 728
Chromium	ppm	ASTM D5185m	>10	<b>▲ 12</b>	▲ 14	9
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	2	<1
Titanium	ppm	ASTM D5185m		<b>14</b>	8	6
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>● 113</b>	● 100	● 71
Lead	ppm	ASTM D5185m	>25	<b>1</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>2</b>	3	2
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	<b>▲ 564</b>	▲ 408	▲ 262
Potassium	ppm	ASTM D5185m	>20	<b>30</b>	22	11
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
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

Sodium	ppm	ASTM D5185m		<b>6</b>	4	2
Boron	ppm	ASTM D5185m		<b>139</b>	145	165
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>10</b>	18	18
Manganese	ppm	ASTM D5185m		<b>7</b>	10	5
Magnesium	ppm	ASTM D5185m		<b>91</b>	190	155
Calcium	ppm	ASTM D5185m		<b>290</b>	540	581
Phosphorus	ppm	ASTM D5185m		<b>1083</b>	1050	960
Zinc	ppm	ASTM D5185m		<b>207</b>	364	320
Sulfur	ppm	ASTM D5185m		<b>29878</b>	20547	18502
Visc @ 40°C	cSt	ASTM D445	328	<b>200</b>	152	159



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP447928 **Received** : 09 May 2024  
**Lab Number** : 06174286 **Tested** : 10 May 2024  
**Unique Number** : 11020339 **Diagnosed** : 13 May 2024 - Angela Borella  
**Test Package** : MOB 1

**MCCLEUNG-LOGAN EQUIPMENT CO - MANASSAS**  
 8450 QUARRY ROAD  
 MANASSAS, VA  
 US 20110  
 Contact: MIKE MAYHUGH  
 MMAYHUGH@MCCLEUNG-LOGAN.COM  
 T: (703)393-7344  
 F: (703)393-7844

Certificate L2367  
 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)