



# VOLVO

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION



Area  
**[8000389895]**  
 Machine Id  
**VOLVO ECR305CL 110051**  
 Component  
**Diesel Engine**  
 Fluid  
**VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)**

### RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP393175	VCP132195	---
Sample Date		Client Info		15 Jan 2024	29 May 2012	---
Machine Age	hrs	Client Info		15678	2084	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Not Changd	N/A	---
Sample Status				SEVERE	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	23	4	---
Chromium	ppm	ASTM D5185(m)	>10	5	<1	---
Nickel	ppm	ASTM D5185(m)	>10	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>10	3	<1	---
Lead	ppm	ASTM D5185(m)	>20	3	<1	---
Copper	ppm	ASTM D5185(m)	>15	7	<1	---
Tin	ppm	ASTM D5185(m)	>10	<1	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

### CONTAMINATION

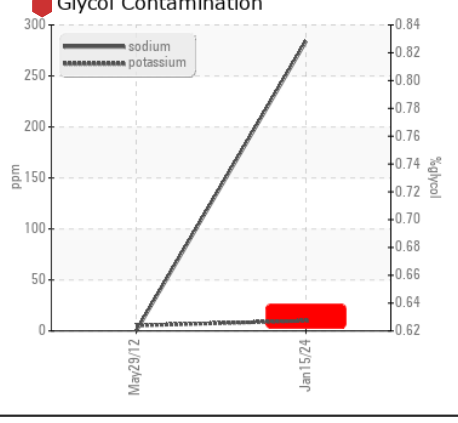
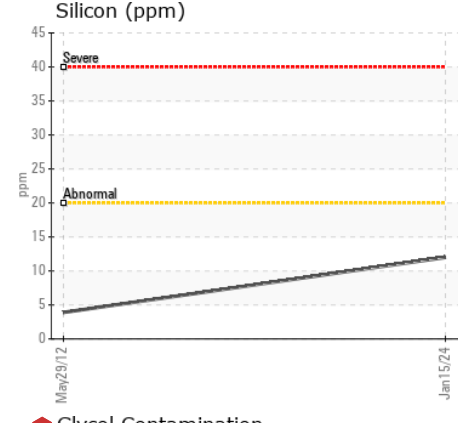
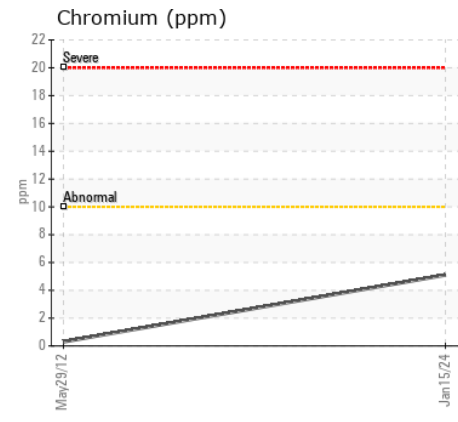
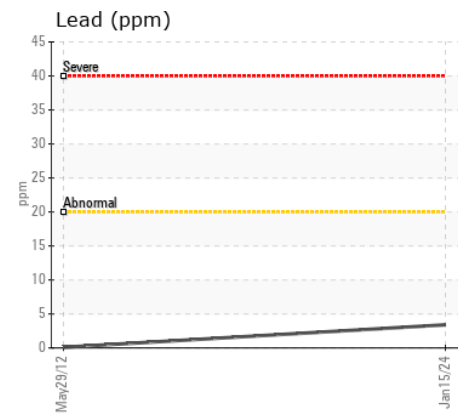
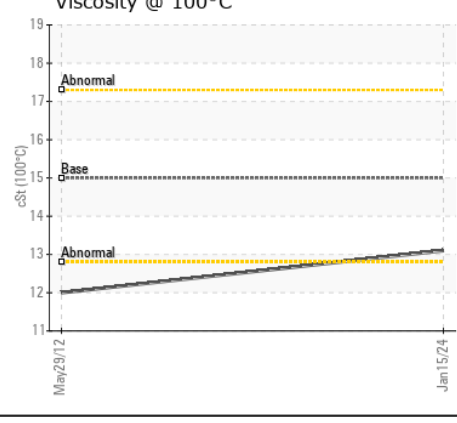
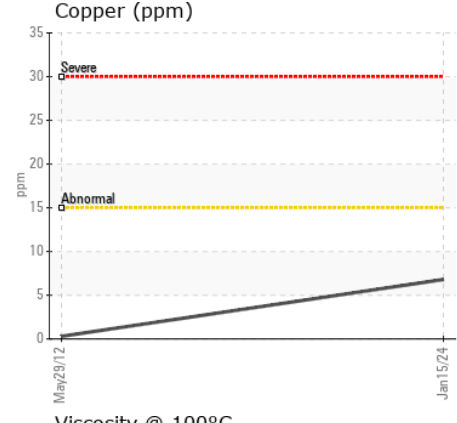
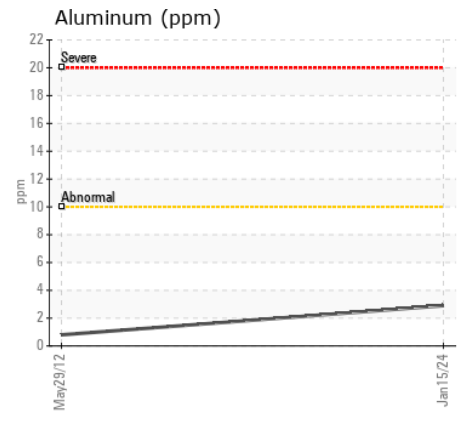
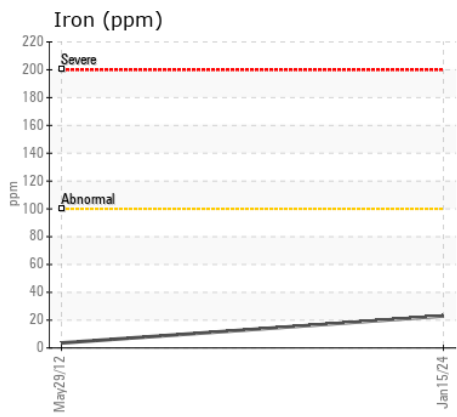
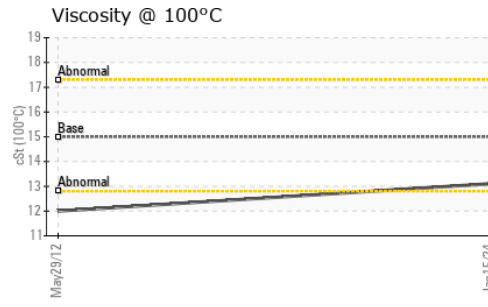
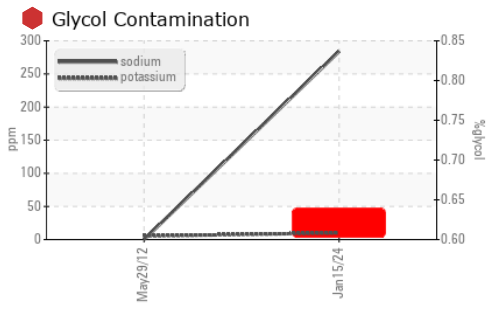
Test for glycol is positive. There is a high concentration of glycol present in the oil.

Silicon	ppm	ASTM D5185(m)	>20	12	4	---
Potassium	ppm	ASTM D5185(m)	>20	▲ 10	5	---
Fuel		WC Method	>6.0	<1.0	0.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol	%	ASTM D7922*		◆ 0.639	NEG	---
Soot %	%	ASTM D7844*	>3	0.1	0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.8	5.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2	26.8	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		▲ 284	0	---
Boron	ppm	ASTM D5185(m)	2.5	49	31	---
Barium	ppm	ASTM D5185(m)	0.0	<1	0	---
Molybdenum	ppm	ASTM D5185(m)	0.7	44	6	---
Manganese	ppm	ASTM D5185(m)	0.0	2	0	---
Magnesium	ppm	ASTM D5185(m)	256	425	118	---
Calcium	ppm	ASTM D5185(m)	2057	1713	2601	---
Phosphorus	ppm	ASTM D5185(m)	935	967	998	---
Zinc	ppm	ASTM D5185(m)	1223	1084	1369	---
Sulfur	ppm	ASTM D5185(m)	4079	2777	3994	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.3	14.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.1	12.0	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP393175 **Received** : 16 Jan 2024  
**Lab Number** : 02608911 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 5709997 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**STRONGCO EQUIPMENT INC.**  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.