



# CONSTRUCTION EQUIPMENT

## SW1027523 MGC VOLVO ECR355EL 310132 - HYDRAULIC SYSTEM



**Sample No:** VCP415120  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SW1027523 MGC



### SAMPLE INFORMATION

Sample Number	<b>VCP415120</b>	VCP355061	VCP324465	---
Sample Date	<b>12 Dec 2023</b>	14 Sep 2022	18 Jun 2021	---
Machine Hours	<b>2120</b>	1609	1049	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.1</b>	41.8	42.6	---
Acid Number (AN)	mg KOH/g	<b>0.46</b>	0.48	0.497	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>▲ 11519</b>	▲ 15696	▲ 24524	---
Particles >6µm		<b>▲ 2212</b>	▲ 4289	▲ 7059	---
Particles >14µm		<b>■ 74</b>	▲ 327	▲ 663	---
ISO 4406:1999 (c)		<b>21/18/13</b>	21/19/16	22/20/17	---
Silicon	ppm	<b>■ 4</b>	■ 4	■ 3	---
Sodium	ppm	<b>■ 0</b>	■ 0	■ 0	---
Potassium	ppm	<b>■ 1</b>	■ 1	■ <1	---

### Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



### WEAR METALS

Iron	ppm	<b>■ 4</b>	■ 4	■ 2	---
Copper	ppm	<b>■ 46</b>	■ 43	■ 36	---
Lead	ppm	<b>■ 0</b>	■ <1	■ <1	---
Tin	ppm	<b>■ 0</b>	■ <1	■ <1	---
Aluminum	ppm	<b>■ 2</b>	■ <1	■ 0	---
Chromium	ppm	<b>■ 2</b>	■ 2	■ <1	---
Molybdenum	ppm	<b>■ 0</b>	■ 0	■ <1	---
Nickel	ppm	<b>■ 0</b>	■ 0	■ 0	---
Titanium	ppm	<b>&lt;1</b>	■ 0	■ 0	---
Silver	ppm	<b>0</b>	■ <1	■ 0	---
Manganese	ppm	<b>■ 0</b>	■ <1	■ <1	---
Vanadium	ppm	<b>0</b>	■ 0	■ 0	---



### ADDITIVES

Calcium	ppm	<b>■ 47</b>	■ 66	■ 112	---
Magnesium	ppm	<b>■ 1</b>	■ 1	■ 1	---
Zinc	ppm	<b>■ 406</b>	■ 459	■ 482	---
Phosphorus	ppm	<b>■ 400</b>	■ 362	■ 383	---
Barium	ppm	<b>■ 6</b>	■ 0	■ 0	---
Boron	ppm	<b>■ 0</b>	■ 0	■ <1	---

**Depot:** VOLVO6174  
**Unique No:** 10795797  
**Signed:** Wes Davis  
**Report Date:** 21 Dec 2023

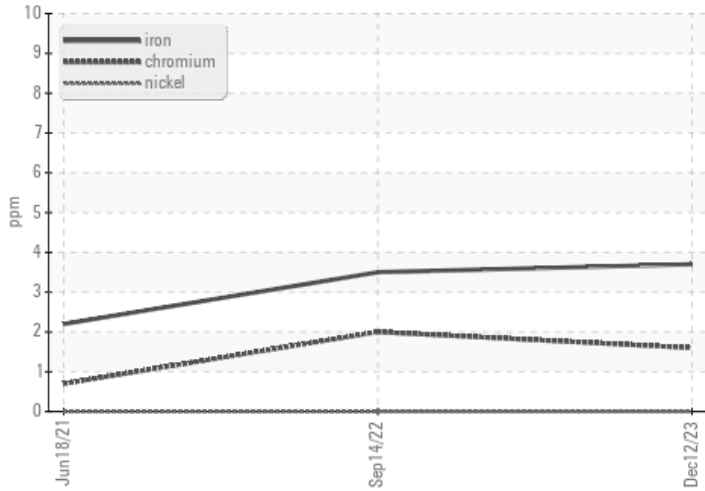


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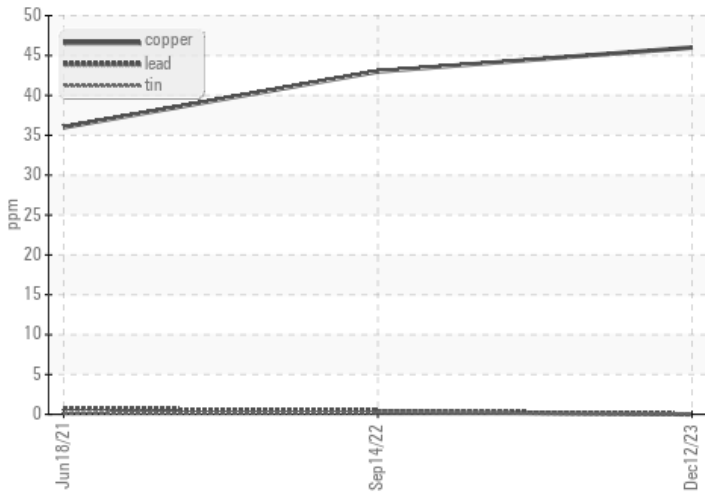


## VOLVO GRAPHS

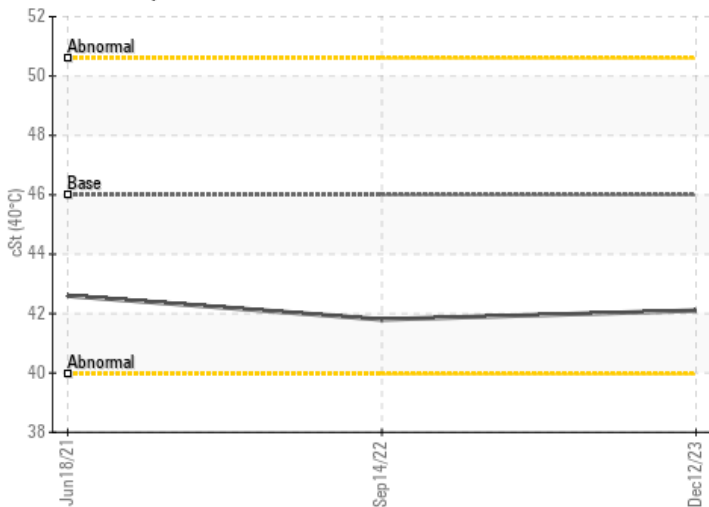
### Ferrous Alloys



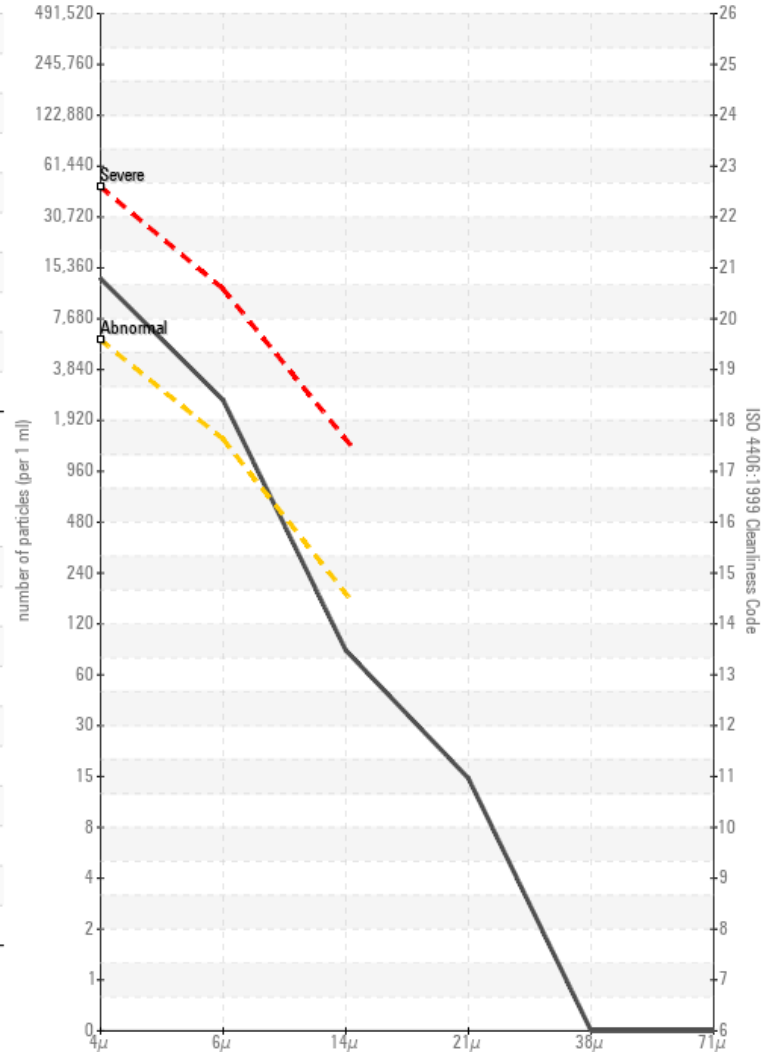
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

