



# CONSTRUCTION EQUIPMENT

## 134053 VOLVO A25G 740144 - HYDRAULIC SYSTEM



**Sample No:** VCP419444

**Oil Type:** NOT GIVEN

**Job No:** 134053



### SAMPLE INFORMATION

Sample Number	<b>VCP419444</b>	VCP420454	VCP383740	VCP361989
Sample Date	<b>18 Aug 2023</b>	02 May 2023	01 Nov 2022	01 Feb 2022
Machine Hours	<b>9495</b>	8939	8552	7576
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>ABNORMAL</b>	NORMAL	MARGINAL	SEVERE



**FCS CONSTRUCTION LLC**

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US 75219

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### OIL CONDITION

Visc @ 40°C	cSt	<b>45.9</b>	46.2	48.7	54.6
Acid Number (AN)	mg KOH/g	<b>0.74</b>	0.64	0.95	1.36



### CONTAMINATION

Water	%	---	---	▲ 0.120	■ 1.79
Particles >4µm		<b>32936</b>	10816	59820	---
Particles >6µm		▲ <b>9305</b>	1967	3090	---
Particles >14µm		▲ <b>680</b>	64	48	---
ISO 4406:1999 (c)		<b>22/20/17</b>	21/18/13	23/19/13	---
Silicon	ppm	<b>3</b>	3	6	5
Sodium	ppm	<b>2</b>	2	2	1
Potassium	ppm	<b>0</b>	0	0	<1



### WEAR METALS

Iron	ppm	<b>5</b>	5	13	3
Copper	ppm	<b>2</b>	<1	3	2
Lead	ppm	<b>3</b>	0	3	2
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>&lt;1</b>	<1	1	<1
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>1</b>	1	4	4
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1085</b>	829	2076	2261
Magnesium	ppm	<b>8</b>	8	23	36
Zinc	ppm	<b>631</b>	606	891	1074
Phosphorus	ppm	<b>533</b>	498	727	954
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	3	5	21

### Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 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.

**Depot:** FCS DAL

**Unique No:** 10617355

**Signed:** Wes Davis

**Report Date:** 24 Aug 2023

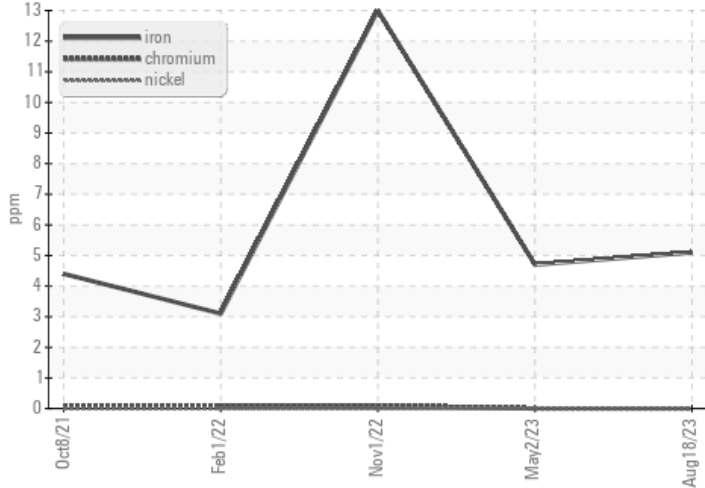


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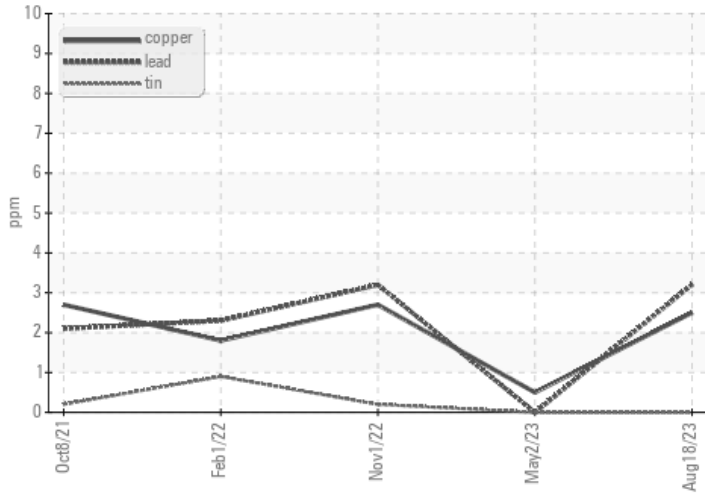


## GRAPHS

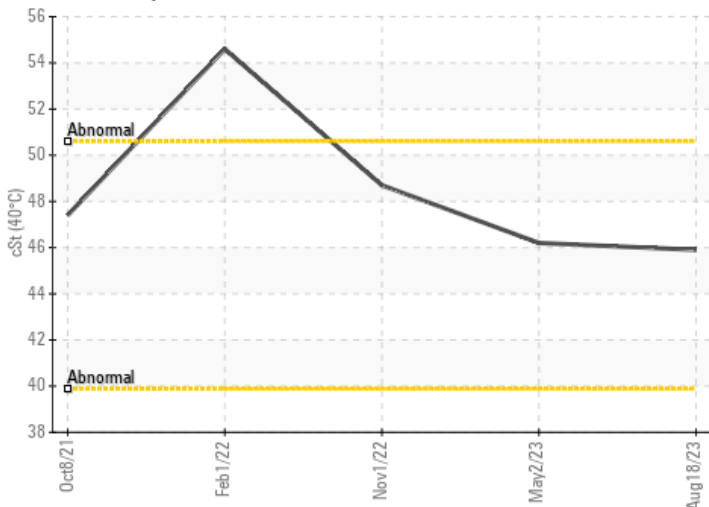
### Ferrous Alloys



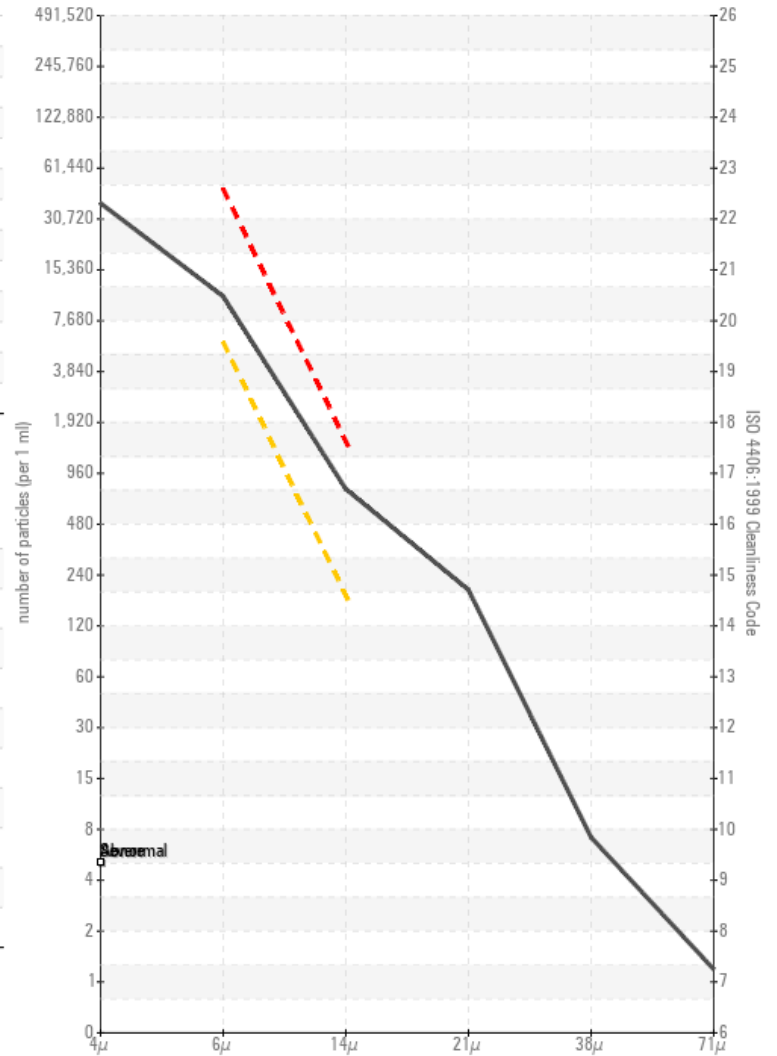
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

