



# CONSTRUCTION EQUIPMENT

## S50100644 RAMONA DIS VOLVO L120 66542 - HYDRAULIC SYSTEM



**Sample No:** VCP337867  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** S50100644 RAMONA DIS



### SAMPLE INFORMATION

Sample Number	<b>VCP337867</b>	VCP350229	VCP289884	VCP102513
Sample Date	<b>05 Jan 2024</b>	19 Jul 2022	03 Nov 2020	15 Jun 2011
Machine Hours	<b>39357</b>	37068	32930	7292
Oil Hours	<b>0</b>	0	0	4000
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
 12345 MAPLEVIEW STREET  
 LAKESIDE, CA  
 US 92040  
 Contact: Mark Stewart  
 mark.stewart@vcesvolvo.com  
 T: X  
 F: X



### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 66.9</b>	▲ 67.5	▲ 66.11	■ 46.94
Acid Number (AN)	mg KOH/g	<b>■ 0.46</b>	■ 0.37	■ 0.398	■ 0.596



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>▲ 20565</b>	▲ 103652	▲ 21022	■ 7754
Particles >6µm		<b>▲ 1545</b>	▲ 15711	▲ 3087	■ 4224
Particles >14µm		<b>■ 65</b>	■ 99	▲ 218	▲ 719
ISO 4406:1999 (c)		<b>22/18/13</b>	24/21/14	22/19/15	20/19/17
Silicon	ppm	<b>■ &lt;1</b>	■ 2	■ <1	■ 9
Sodium	ppm	<b>■ &lt;1</b>	■ 0	■ 0	■ 5
Potassium	ppm	<b>■ 0</b>	■ 0	■ <1	■ 0

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



### WEAR METALS

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



### ADDITIVES

Calcium	ppm	<b>■ 84</b>	■ 86	■ 90	79
Magnesium	ppm	<b>■ 0</b>	■ 11	■ 18	■ 2
Zinc	ppm	<b>■ 440</b>	■ 425	■ 440	■ 411
Phosphorus	ppm	<b>■ 347</b>	■ 343	■ 336	■ 328
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 1</b>	■ 4	■ 4	■ 5

**Depot:** VOLVO4488  
**Unique No:** 10832357  
**Signed:** Jonathan Hester  
**Report Date:** 17 Jan 2024

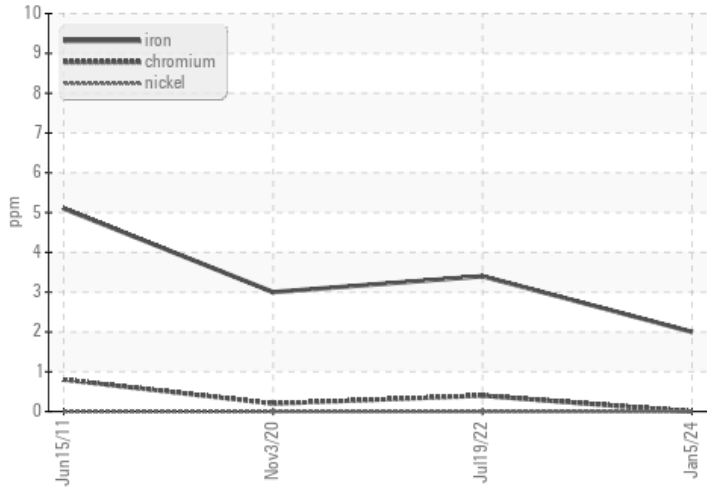


# CONSTRUCTION EQUIPMENT

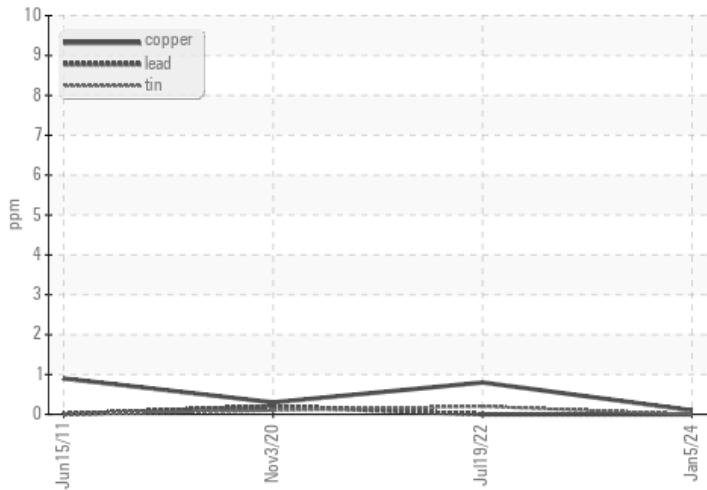


## VOLVO GRAPHS

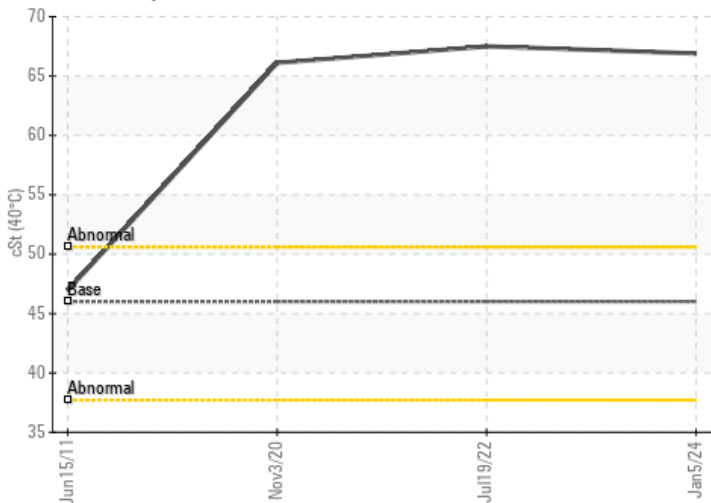
### Ferrous Alloys



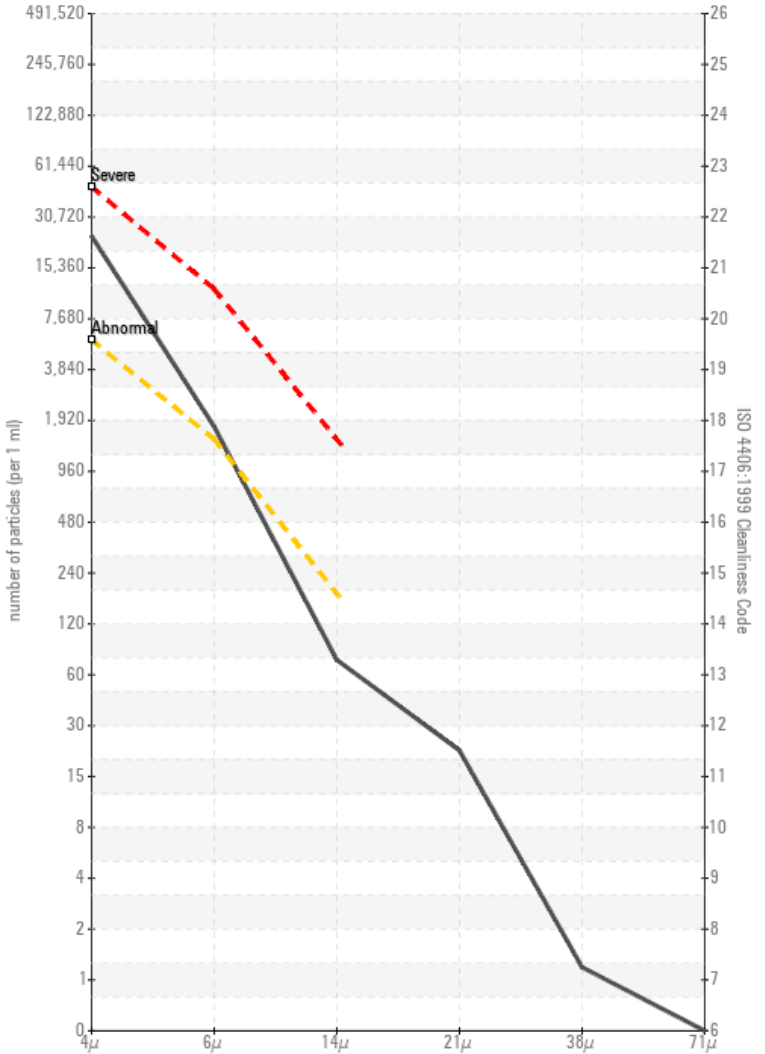
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

