



# CONSTRUCTION EQUIPMENT

## 600188 WASTE MGMT VOLVO EC160E 310147 - HYDRAULIC SYSTEM



**Sample No:** VCP420783  
**Oil Type:** VOLVO HYDRAULIC SUPER 68  
**Job No:** 600188 WASTE MGMT



### SAMPLE INFORMATION

Sample Number	<b>VCP420783</b>	VCP434573	VCP379882	VCP346232
Sample Date	<b>10 Jan 2024</b>	21 Sep 2023	26 Apr 2023	31 Mar 2023
Machine Hours	<b>12402</b>	12010	9553	0
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	N/A	N/A
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>39.0</b>	39.9	40.2	40.2
Acid Number (AN)	mg KOH/g	<b>0.44</b>	0.49	0.38	0.43



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>29160</b>	135509	1311	5193
Particles >6µm		<b>3589</b>	49900	244	580
Particles >14µm		<b>88</b>	1404	7	24
ISO 4406:1999 (c)		<b>22/19/14</b>	24/23/18	18/15/10	20/16/12
Silicon	ppm	<b>2</b>	4	2	2
Sodium	ppm	<b>&lt;1</b>	<1	4	4
Potassium	ppm	<b>0</b>	1	1	1

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>0</b>	10	6	6
Copper	ppm	<b>13</b>	14	12	12
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>&lt;1</b>	<1	<1	<1
Chromium	ppm	<b>10</b>	11	7	7
Molybdenum	ppm	<b>0</b>	<1	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>46</b>	53	56	55
Magnesium	ppm	<b>2</b>	3	3	3
Zinc	ppm	<b>462</b>	492	497	497
Phosphorus	ppm	<b>366</b>	381	406	407
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** VOLVO1271  
**Unique No:** 10861832  
**Signed:** Jonathan Hester  
**Report Date:** 07 Feb 2024

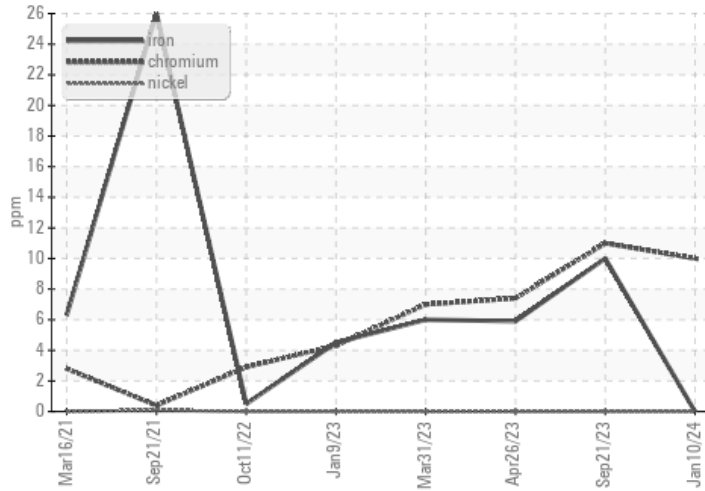


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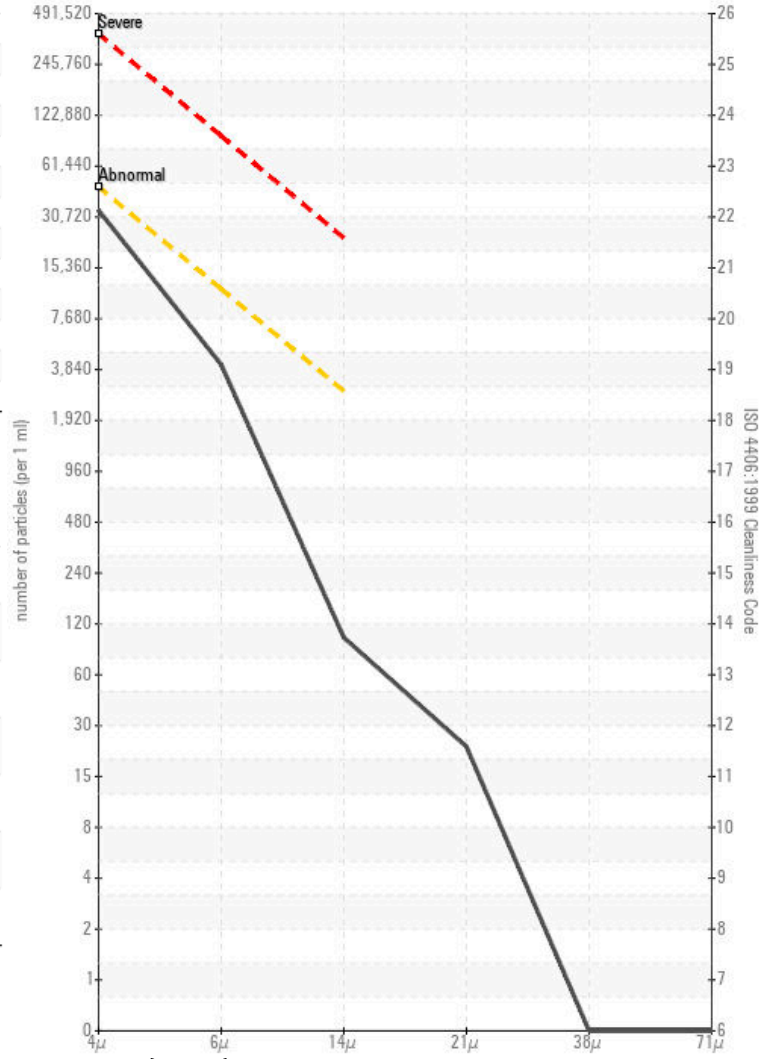


## VOLVO GRAPHS

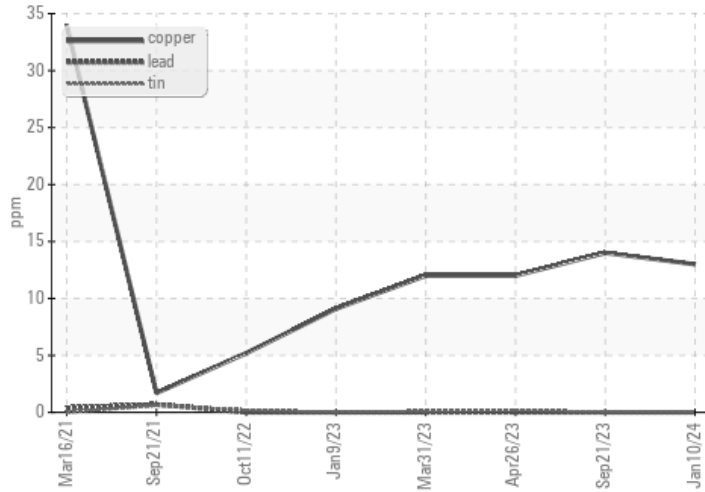
### Ferrous Alloys



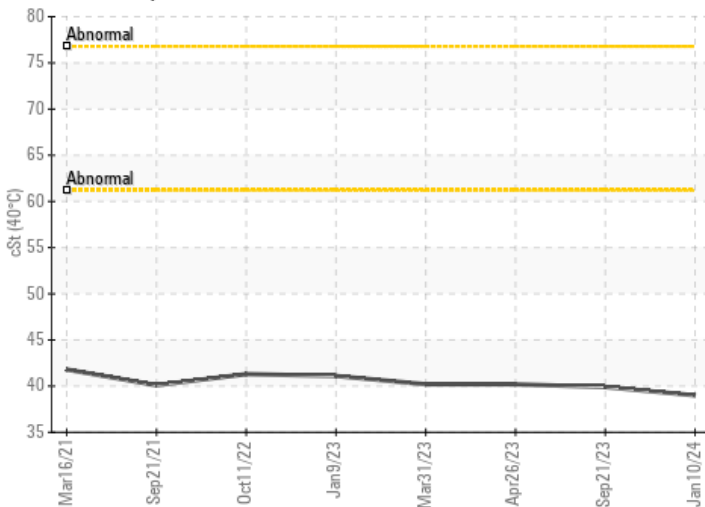
### Particle Count



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

