



# CONSTRUCTION EQUIPMENT

## 600187 WASTE MGMT VOLVO EC160E 310218 - HYDRAULIC SYSTEM



**Sample No:** VCP420785  
**Oil Type:** VOLVO HYDRAULIC SUPER 68  
**Job No:** 600187 WASTE MGMT



### SAMPLE INFORMATION

Sample Number	<b>VCP420785</b>	VCP379692	VCP371485	VCP362548
Sample Date	<b>10 Jan 2024</b>	07 Jun 2023	09 Jan 2023	11 Oct 2022
Machine Hours	<b>14875</b>	0	14095	0
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	N/A	Not Changd	N/A
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

**PACWEST MACHINERY**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>39.8</b>	41.9	42.1	42.2
Acid Number (AN)	mg KOH/g	<b>0.42</b>	0.43	0.47	0.52



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>23645</b>	11929	23019	64201
Particles >6µm		<b>4385</b>	777	1774	5771
Particles >14µm		<b>217</b>	18	18	164
ISO 4406:1999 (c)		<b>22/19/15</b>	21/17/11	22/18/11	23/20/15
Silicon	ppm	<b>4</b>	5	5	5
Sodium	ppm	<b>1</b>	5	<1	3
Potassium	ppm	<b>0</b>	2	1	0

**Diagnosis**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor. The chromium level is abnormal. All other component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>14</b>	14	13	10
Copper	ppm	<b>13</b>	13	13	12
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>1</b>	1	1	2
Chromium	ppm	<b>▲ 13</b>	▲ 13	▲ 13	▲ 13
Molybdenum	ppm	<b>0</b>	<1	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>61</b>	66	62	41
Magnesium	ppm	<b>4</b>	4	3	5
Zinc	ppm	<b>464</b>	487	473	484
Phosphorus	ppm	<b>364</b>	395	358	384
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** VOLVO1271  
**Unique No:** 10861827  
**Signed:** Jonathan Hester  
**Report Date:** 07 Feb 2024

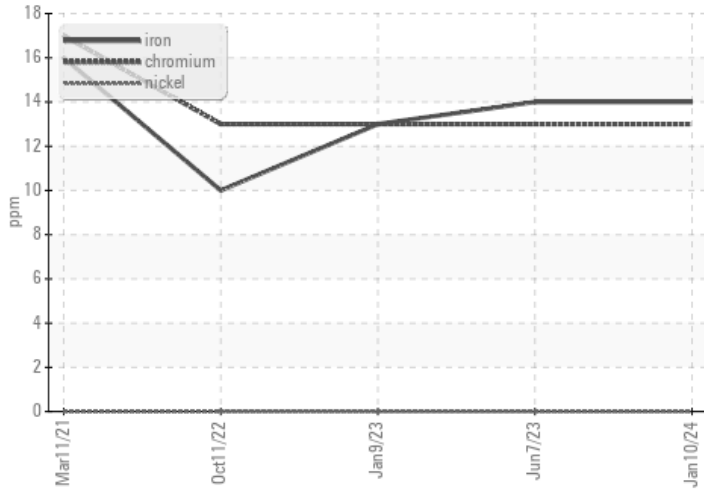


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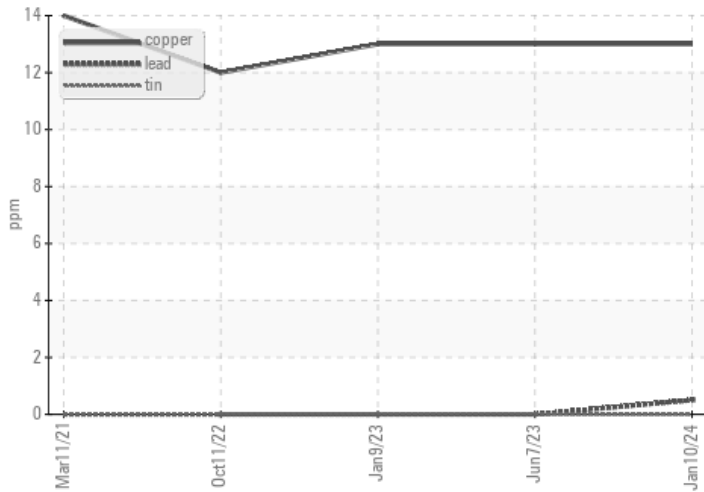


## GRAPHS

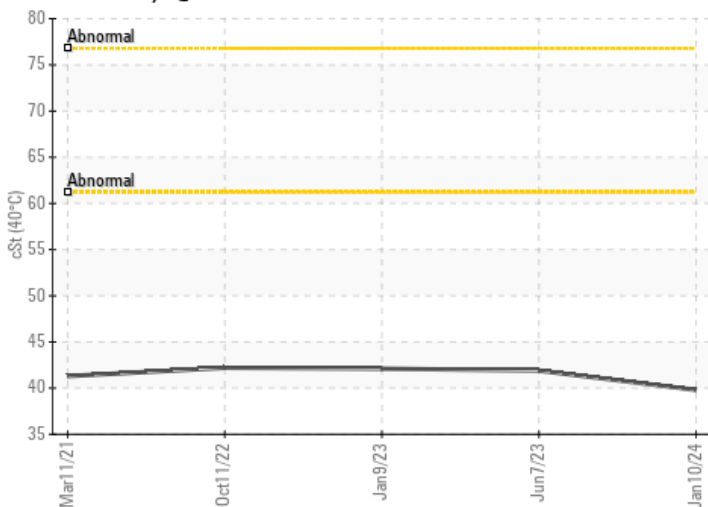
### ▲ Ferrous Alloys



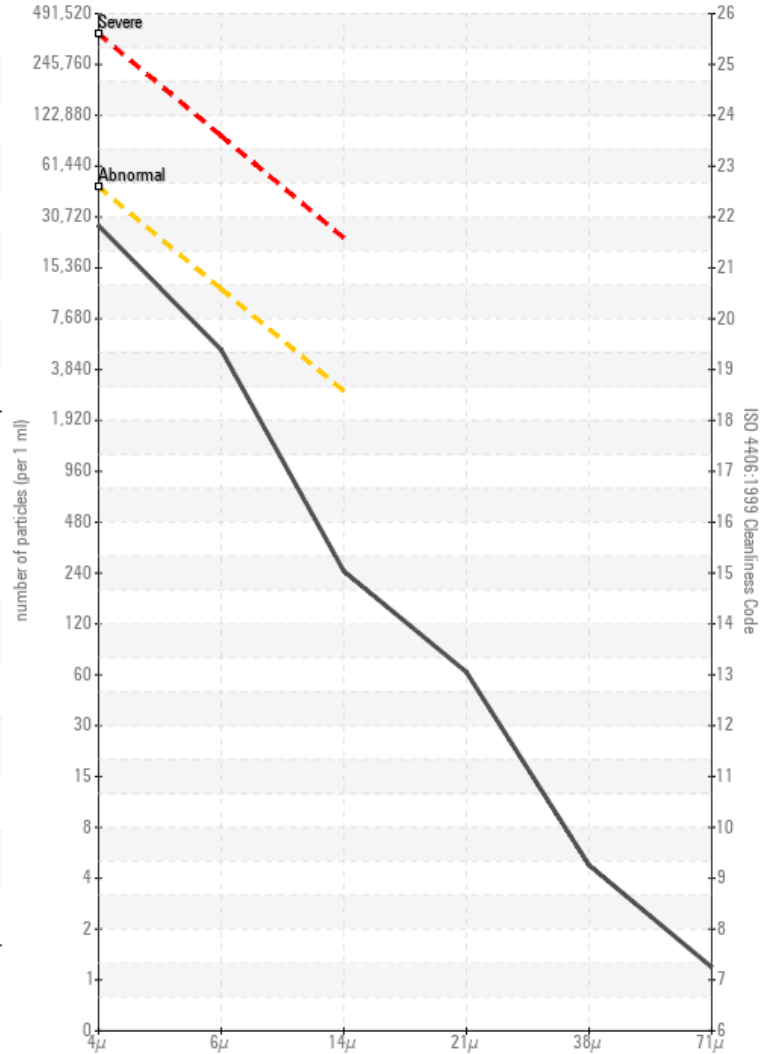
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

