



# CONSTRUCTION EQUIPMENT

## 2644-1 VOLVO EC250DL 210030 - HYDRAULIC SYSTEM



**Sample No:** VCP408373  
**Oil Type:** CHEVRON HYDRAULIC OIL AW ISO 46  
**Job No:** 2644-1



### SAMPLE INFORMATION

Sample Number	<b>VCP408373</b>	VCP403080	VCP318104	VCP306140
Sample Date	<b>21 Sep 2023</b>	09 Nov 2022	09 Dec 2021	10 Feb 2021
Machine Hours	<b>12928</b>	12040	10972	10082
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.4</b>	43.9	44.6	44.3
Acid Number (AN)	mg KOH/g	<b>0.44</b>	0.48	0.399	0.588

### CONTAMINATION

Particles >4µm	<b>4933</b>	27716	18853	440
Particles >6µm	<b>1218</b>	6715	1810	80
Particles >14µm	<b>57</b>	264	200	5
ISO 4406:1999 (c)	<b>19/17/13</b>	22/20/15	21/18/15	16/13/10
Silicon	ppm	<b>&lt;1</b>	2	2
Sodium	ppm	<b>&lt;1</b>	0	<1
Potassium	ppm	<b>0</b>	2	<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>2</b>	4	5	6
Copper	ppm	<b>4</b>	6	6	9
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>0</b>	1	2	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	2	1
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	2	<1	<1
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>131</b>	101	177	160
Magnesium	ppm	<b>2</b>	5	10	9
Zinc	ppm	<b>435</b>	471	440	452
Phosphorus	ppm	<b>361</b>	360	371	366
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	1	7	3

**Depot:** VOLVO1023  
**Unique No:** 10662392  
**Signed:** Wes Davis  
**Report Date:** 27 Sep 2023

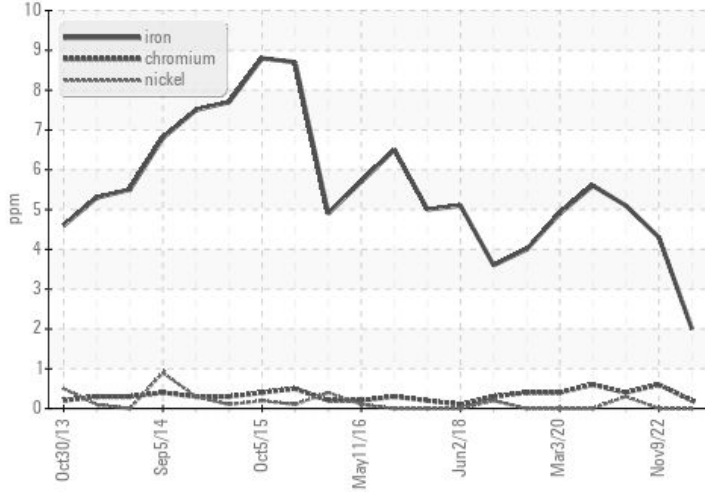


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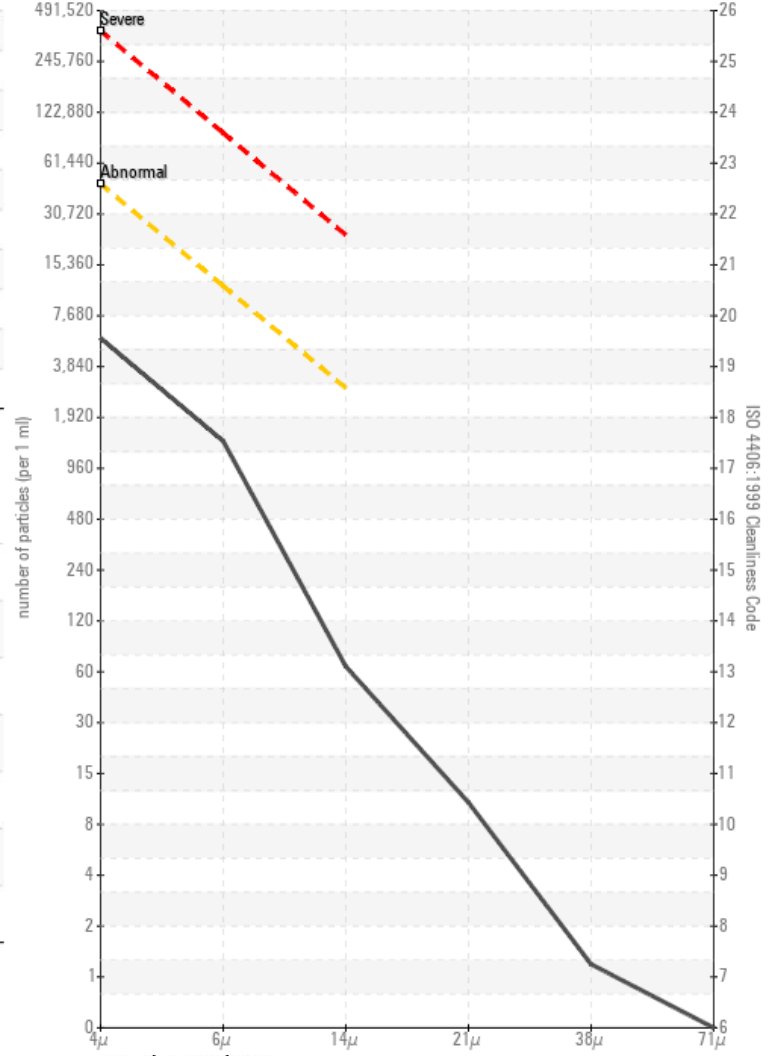


## VOLVO GRAPHS

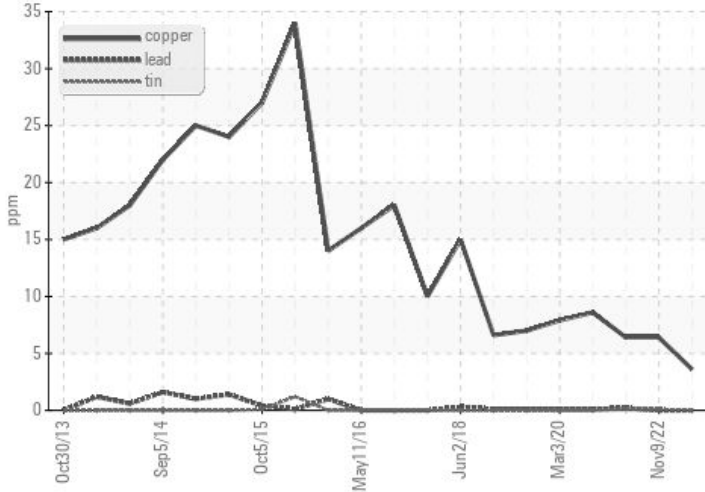
Ferrous Alloys



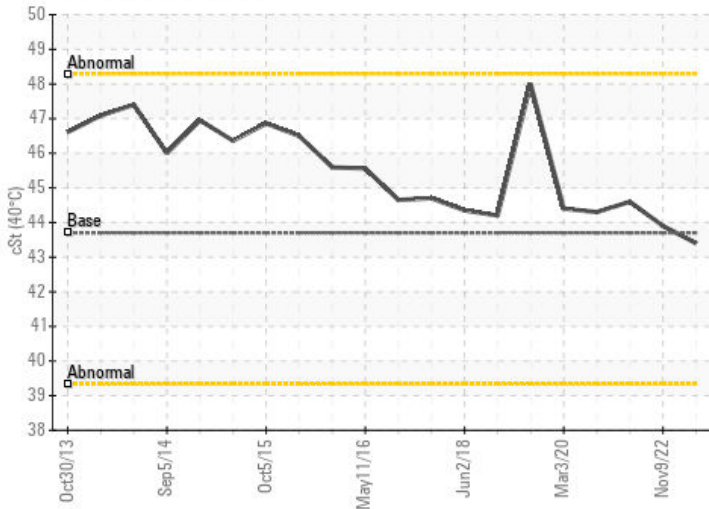
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

