



# CONSTRUCTION EQUIPMENT

## A11204 VOLVO ECR235E 310119 - HYDRAULIC SYSTEM



**Sample No:** VCP416928  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** A11204



### SAMPLE INFORMATION

Sample Number	<b>VCP416928</b>	VCP396679	VCP372062	VCP339279
Sample Date	<b>27 Sep 2023</b>	18 Mar 2023	09 Jun 2022	28 Feb 2022
Machine Hours	<b>5960</b>	5440	4836	4490
Oil Hours	<b>1500</b>	1000	0	2000
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.7</b>	40.9	42.4	43.3
Acid Number (AN)	mg KOH/g	<b>0.47</b>	0.65	0.56	0.48



### CONTAMINATION

Particles >4µm		<b>4319</b>	16857	3319	3898
Particles >6µm		<b>703</b>	3411	545	798
Particles >14µm		<b>40</b>	345	16	52
ISO 4406:1999 (c)		<b>19/17/12</b>	21/19/16	19/16/11	19/17/13
Silicon	ppm	<b>5</b>	7	6	5
Sodium	ppm	<b>&lt;1</b>	2	0	3
Potassium	ppm	<b>&lt;1</b>	<1	1	0

### Diagnosis

Resample at the next service interval to monitor. All 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>5</b>	6	5	9
Copper	ppm	<b>13</b>	17	15	37
Lead	ppm	<b>&lt;1</b>	<1	<1	2
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	1	1	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	2
Molybdenum	ppm	<b>2</b>	1	1	<1
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1047</b>	1109	1081	613
Magnesium	ppm	<b>23</b>	14	11	10
Zinc	ppm	<b>789</b>	813	786	707
Phosphorus	ppm	<b>602</b>	653	594	617
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>37</b>	35	35	18

**Depot:** JAAPHI  
**Unique No:** 10672766  
**Signed:** Don Baldrige  
**Report Date:** 03 Oct 2023

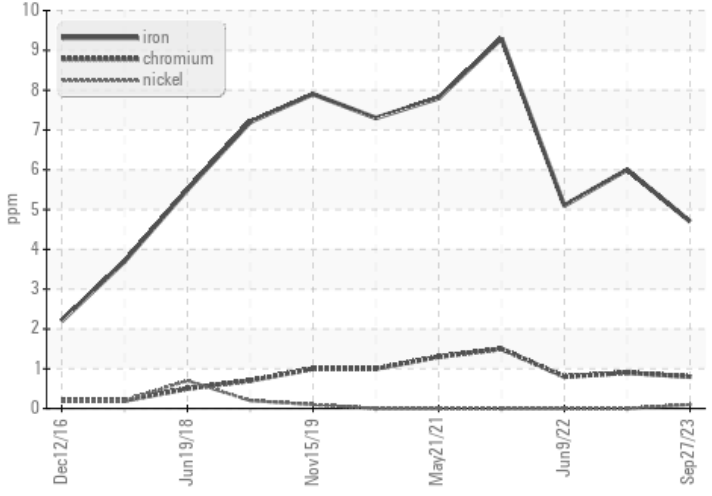


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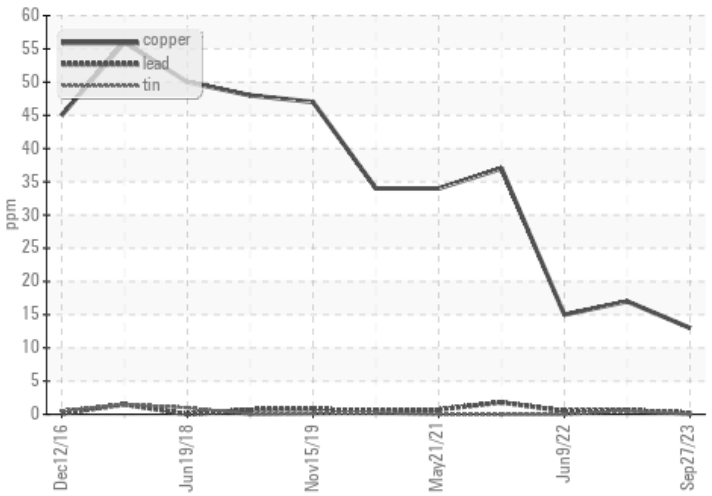


## GRAPHS

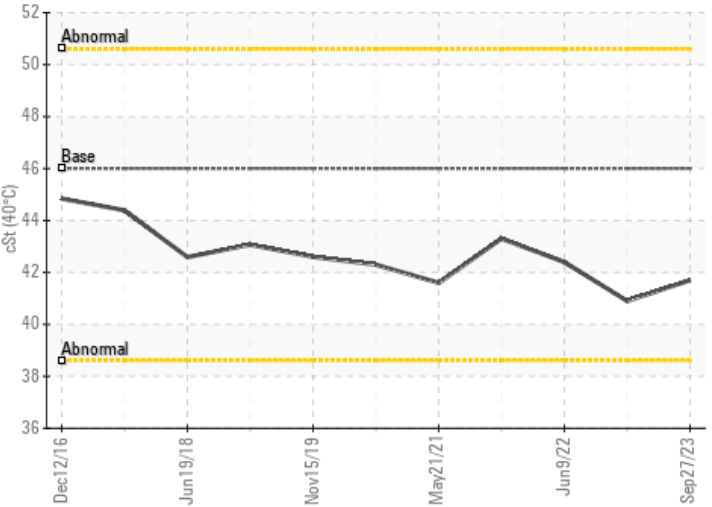
### Ferrous Alloys



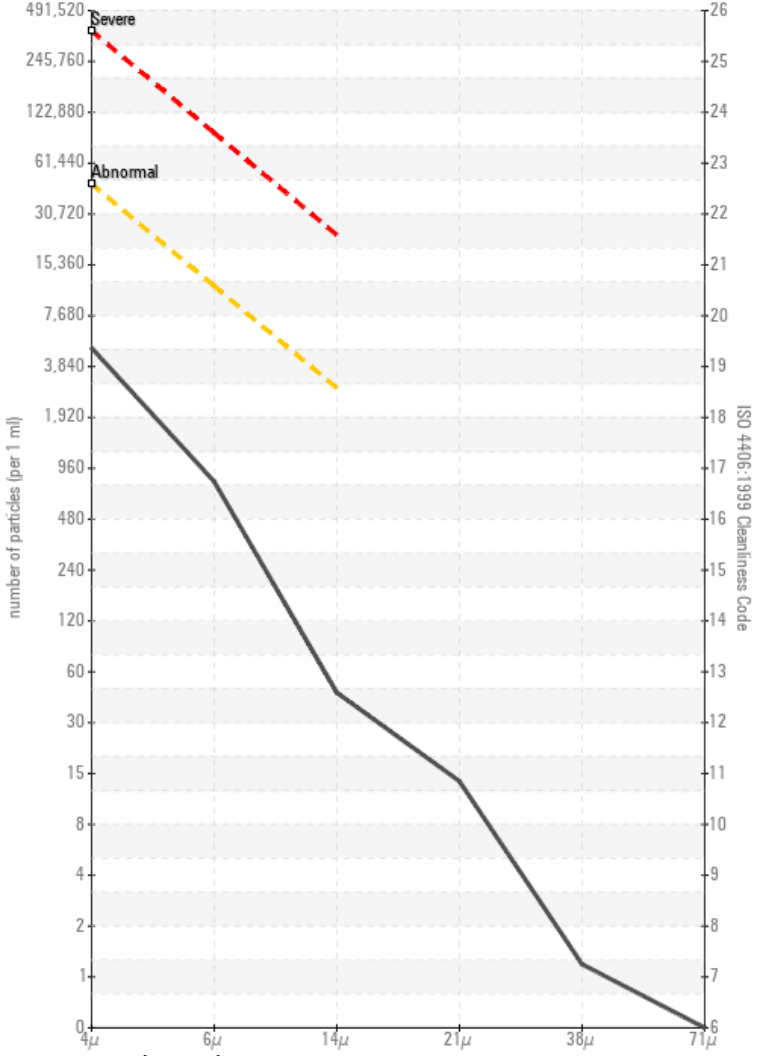
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

