



# CONSTRUCTION EQUIPMENT

## 716824 SYNERGY VOLVO ECR235 314203 - HYDRAULIC SYSTEM



**Sample No:** VCP450724  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 716824 SYNERGY



### SAMPLE INFORMATION

Sample Number	<b>VCP450724</b>	VCP396269	VCP375848	VCP338659
Sample Date	<b>21 May 2024</b>	24 Feb 2023	09 Jun 2022	15 Nov 2021
Machine Hours	<b>4253</b>	3136	2375	1831
Oil Hours	<b>0</b>	1000	2375	0
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: KENNY HANEY  
 khaney@flaglerce.com  
 T: (813)630-0077  
 F: (813)630-2233



### OIL CONDITION

Visc @ 40°C	cSt	<b>41.9</b>	42.9	43.1	42.5
Acid Number (AN)	mg KOH/g	<b>0.42</b>	0.40	0.38	0.395



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>12942</b>	5613	19515	17163
Particles >6µm		<b>2474</b>	1389	1167	2386
Particles >14µm		<b>331</b>	84	10	58
ISO 4406:1999 (c)		<b>21/18/16</b>	20/18/14	21/17/10	21/18/13
Silicon	ppm	<b>4</b>	3	4	<1
Sodium	ppm	<b>2</b>	<1	0	<1
Potassium	ppm	<b>&lt;1</b>	<1	2	0

### 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>6</b>	4	6	2
Copper	ppm	<b>19</b>	12	22	18
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>&lt;1</b>	<1	2	<1
Chromium	ppm	<b>0</b>	0	<1	0
Molybdenum	ppm	<b>1</b>	2	2	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>80</b>	72	103	72
Magnesium	ppm	<b>5</b>	5	5	0
Zinc	ppm	<b>424</b>	404	438	427
Phosphorus	ppm	<b>355</b>	325	348	383
Barium	ppm	<b>0</b>	0	2	0
Boron	ppm	<b>0</b>	0	4	0

**Depot:** VOLVO0093  
**Unique No:** 11048870  
**Signed:** Angela Borella  
**Report Date:** 30 May 2024

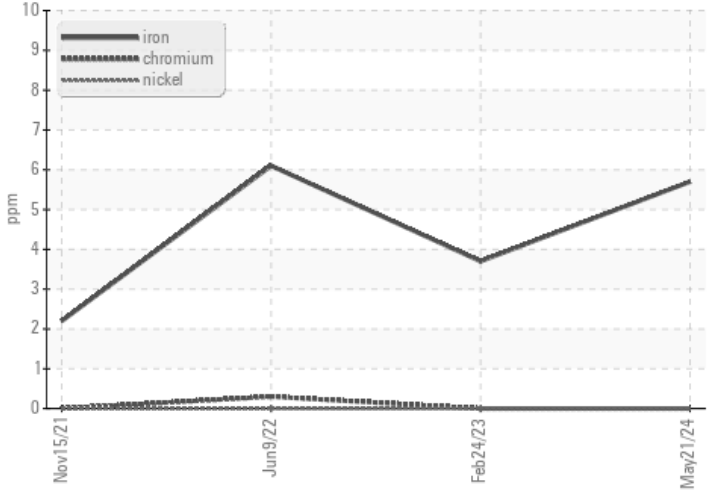


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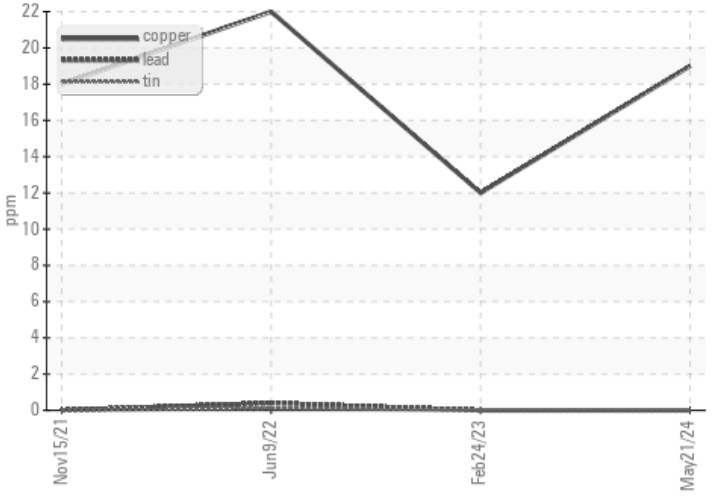


## VOLVO GRAPHS

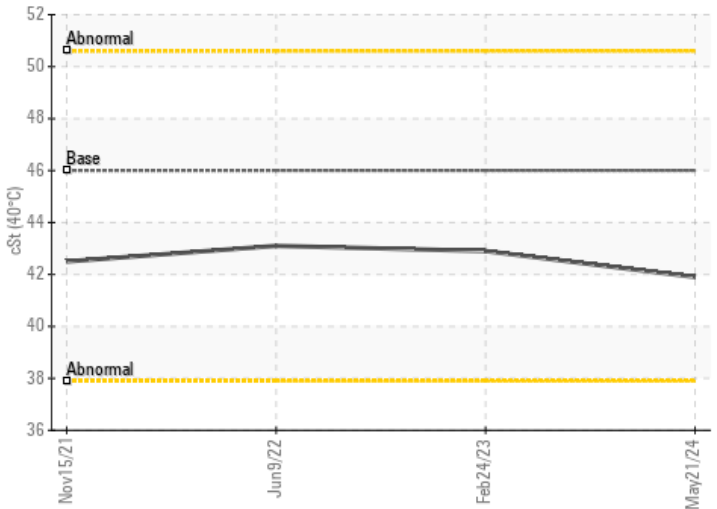
### Ferrous Alloys



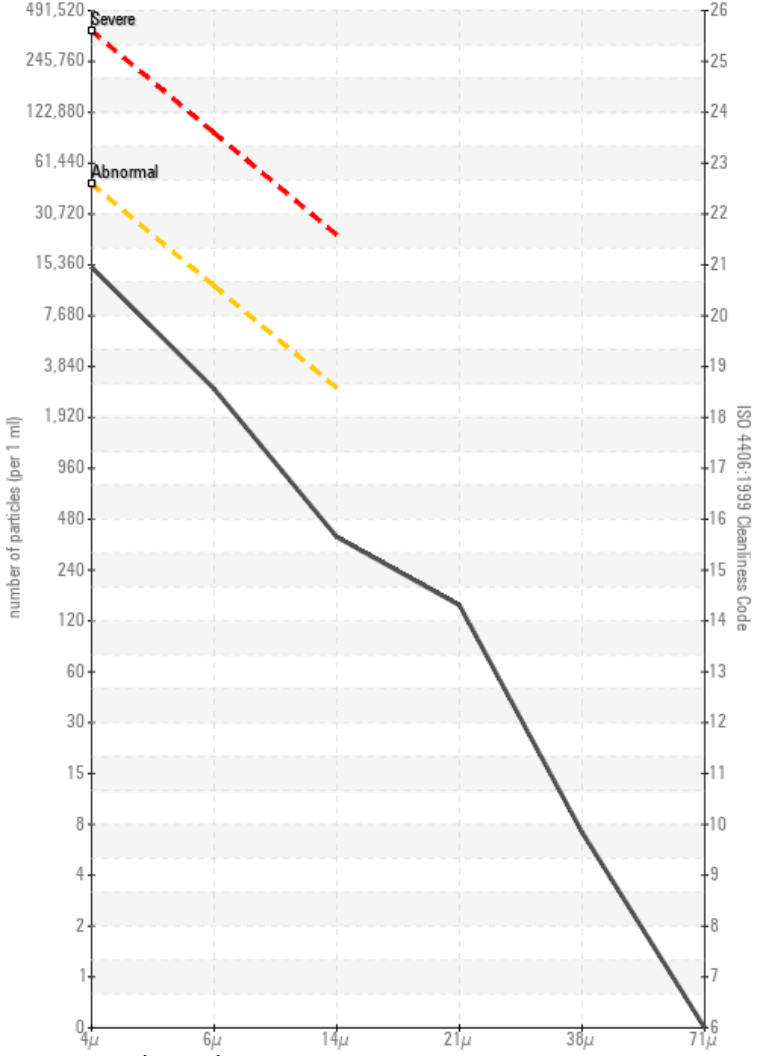
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

