



# CONSTRUCTION EQUIPMENT

## SPM593827 HERC VOLVO ECR235 311787 - HYDRAULIC SYSTEM



**Sample No:** VCP412613  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM593827 HERC



### SAMPLE INFORMATION

Sample Number	VCP412613	VCP319774	---	---
Sample Date	08 Aug 2023	15 Sep 2021	---	---
Machine Hours	2592	1063	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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### OIL CONDITION

Visc @ 40°C	cSt	44.0	43.8	---	---
Acid Number (AN)	mg KOH/g	0.58	0.469	---	---



### CONTAMINATION

Water	%	0.111	---	---	---
Particles >4µm		32436	26534	---	---
Particles >6µm		1223	1292	---	---
Particles >14µm		28	50	---	---
ISO 4406:1999 (c)		22/17/12	22/17/13	---	---
Silicon	ppm	2	1	---	---
Sodium	ppm	0	0	---	---
Potassium	ppm	<1	0	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	6	2	---	---
Copper	ppm	41	35	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	4	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	<1	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	641	79	---	---
Magnesium	ppm	4	1	---	---
Zinc	ppm	571	518	---	---
Phosphorus	ppm	466	393	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	1	---	---

**Depot:** VOLVO0093  
**Unique No:** 10604737  
**Signed:** Jonathan Hester  
**Report Date:** 16 Aug 2023

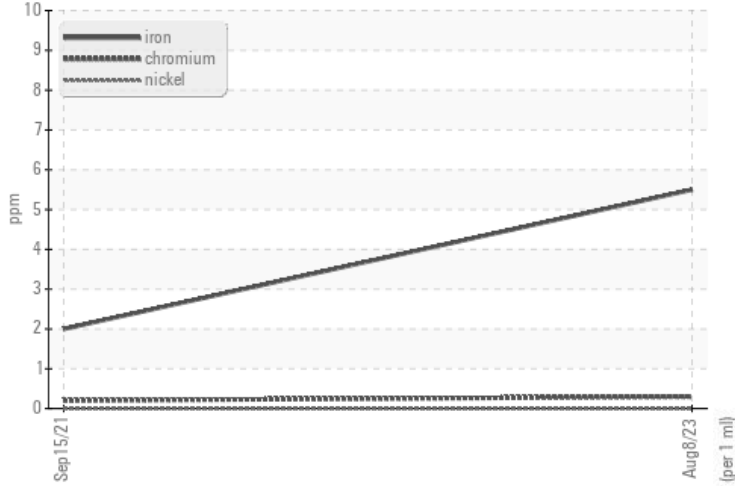


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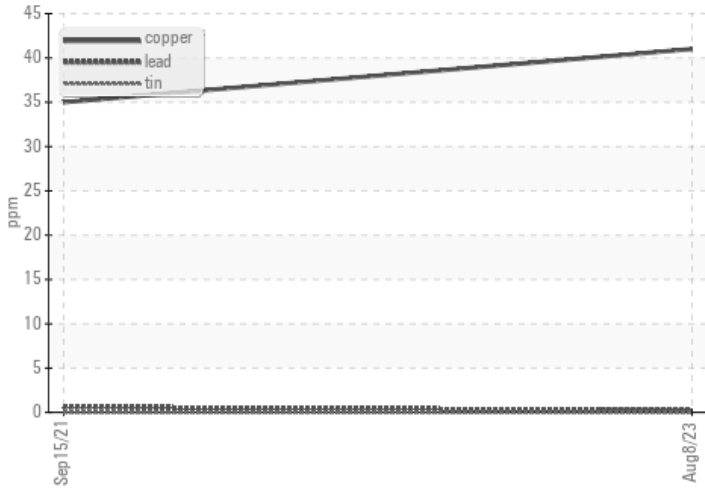


## GRAPHS

### Ferrous Alloys



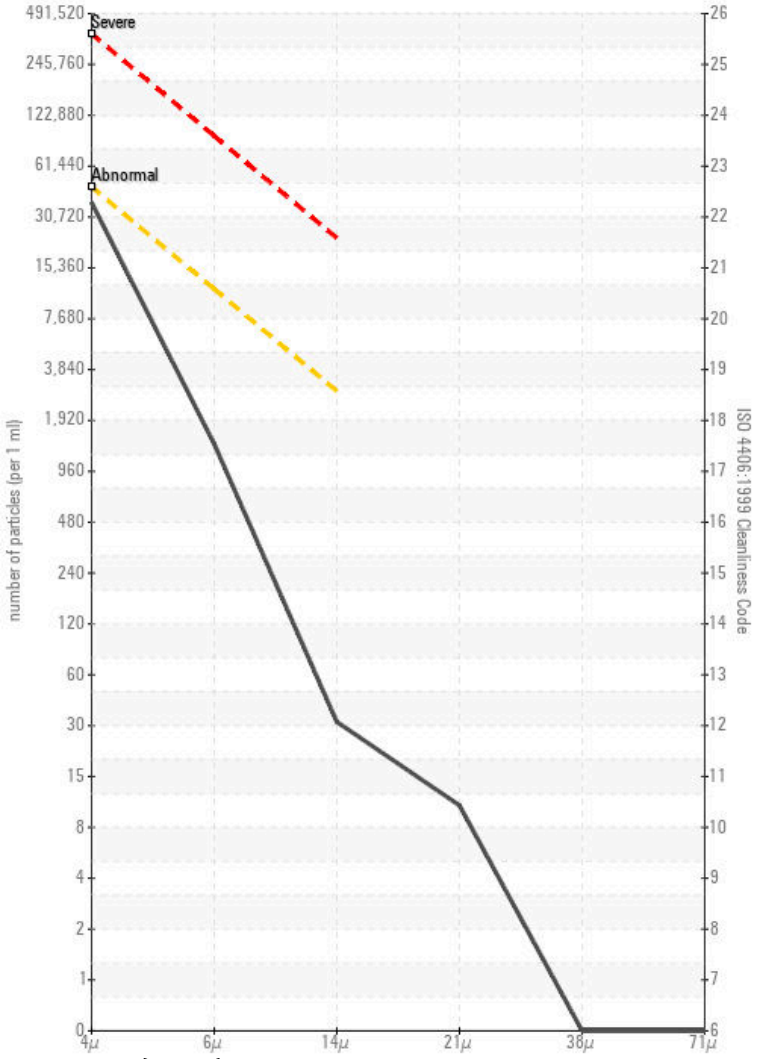
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

