



# CONSTRUCTION EQUIPMENT

## SPM581123 ALPINE DEM VOLVO EC140EL 311517 - HYDRAULIC SYSTEM



**Sample No:** VCP423285  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM581123 ALPINE DEM



### SAMPLE INFORMATION

Sample Number	<b>VCP423285</b>	VCP411428	VCP361088	---
Sample Date	<b>28 Jul 2023</b>	13 Apr 2023	23 Mar 2022	---
Machine Hours	<b>2507</b>	2262	1740	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	---
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>47.1</b>	44.0	45.3	---
Acid Number (AN)	mg KOH/g	<b>0.25</b>	0.53	0.56	---



### CONTAMINATION

Particles >4µm		<b>2717</b>	▲ 134143	34627	---
Particles >6µm		<b>740</b>	▲ 38213	950	---
Particles >14µm		<b>57</b>	855	46	---
ISO 4406:1999 (c)		<b>19/17/13</b>	24/22/17	22/17/13	---
Silicon	ppm	<b>&lt;1</b>	3	3	---
Sodium	ppm	<b>&lt;1</b>	<1	0	---
Potassium	ppm	<b>&lt;1</b>	0	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>0</b>	9	6	---
Copper	ppm	<b>&lt;1</b>	14	13	---
Lead	ppm	<b>0</b>	0	<1	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>1</b>	1	<1	---
Chromium	ppm	<b>0</b>	0	<1	---
Molybdenum	ppm	<b>0</b>	<1	<1	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>&lt;1</b>	2	1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>54</b>	739	1039	---
Magnesium	ppm	<b>2</b>	10	10	---
Zinc	ppm	<b>403</b>	599	733	---
Phosphorus	ppm	<b>310</b>	470	646	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	14	22	---

**Depot:** VOLVO8885  
**Unique No:** 10602083  
**Signed:** Wes Davis  
**Report Date:** 14 Aug 2023

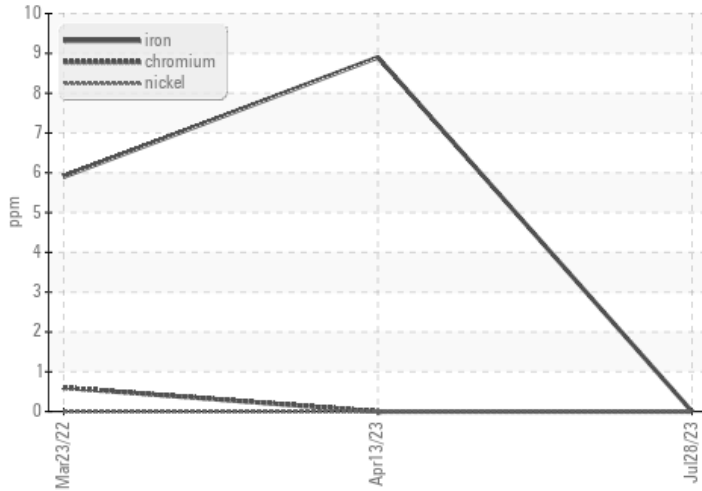


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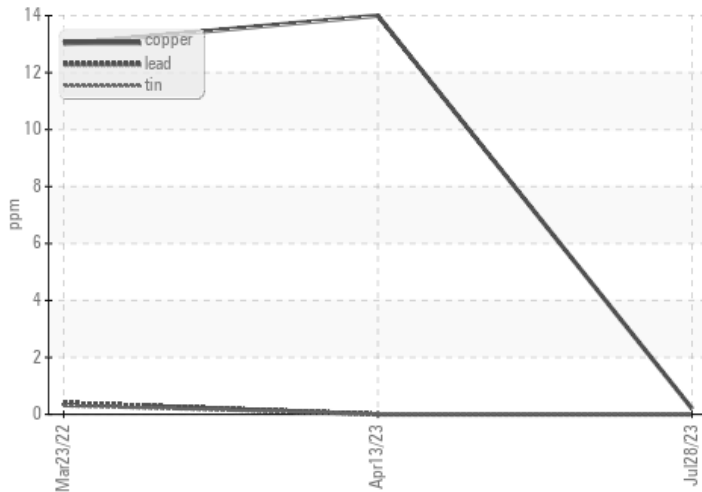


## VOLVO GRAPHS

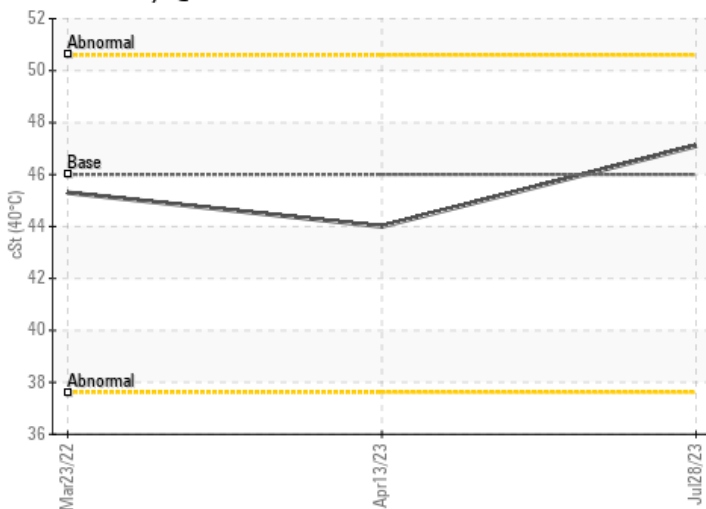
### Ferrous Alloys



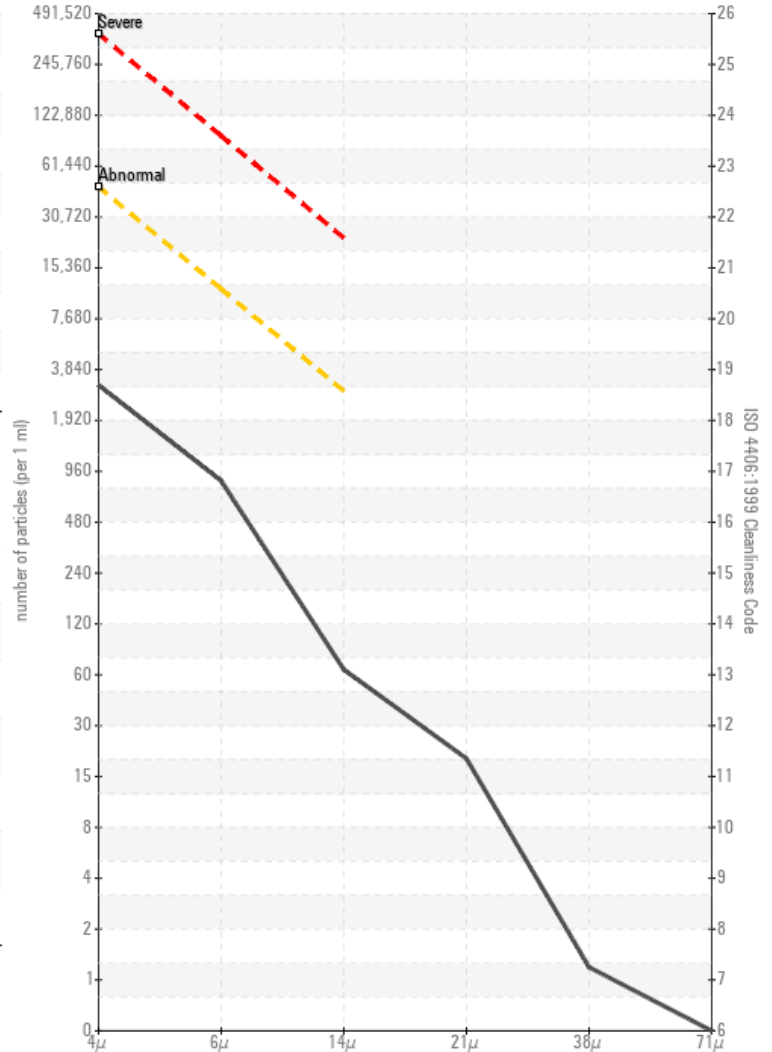
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

