



# CONSTRUCTION EQUIPMENT

730087 PADNOS VOLVO EC220D 210528 - HYDRAULIC SYSTEM



**Sample No:** VCP453548  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 730087 PADNOS



**ALTA EQUIPMENT COMPANY - METRO WEST**  
 56195 PONTIAC TRAIL  
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 US 48165  
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## SAMPLE INFORMATION

Sample Number	VCP453548	VCP368705	---	---
Sample Date	20 Jun 2024	01 Dec 2022	---	---
Machine Hours	11524	10304	---	---
Oil Hours	4000	2000	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



## OIL CONDITION

Visc @ 40°C	cSt	47.9	53.1	---	---
Acid Number (AN)	mg KOH/g	1.10	0.54	---	---



## CONTAMINATION

Water	%	0.149	NEG	---	---
Particles >4µm		1114	47149	---	---
Particles >6µm		607	8217	---	---
Particles >14µm		103	314	---	---
ISO 4406:1999 (c)		17/16/14	23/20/15	---	---
Silicon	ppm	15	5	---	---
Sodium	ppm	3	2	---	---
Potassium	ppm	<1	0	---	---



## WEAR METALS

Iron	ppm	9	7	---	---
Copper	ppm	18	10	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	7	11	---	---
Molybdenum	ppm	<1	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	0	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	1324	395	---	---
Magnesium	ppm	6	2	---	---
Zinc	ppm	734	533	---	---
Phosphorus	ppm	684	422	---	---
Barium	ppm	0	0	---	---
Boron	ppm	<1	0	---	---

## Diagnosis

We advise that you check for the source of water entry. 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.

**Depot:** VOLVO2990  
**Unique No:** 11101024  
**Signed:** Jonathan Hester  
**Report Date:** 02 Jul 2024

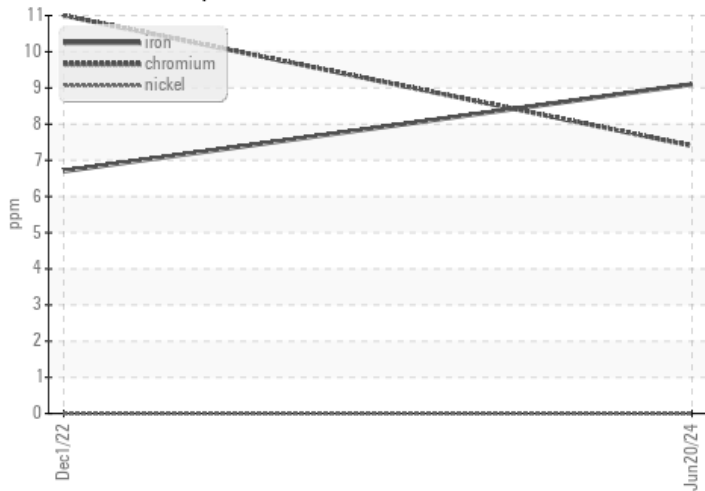


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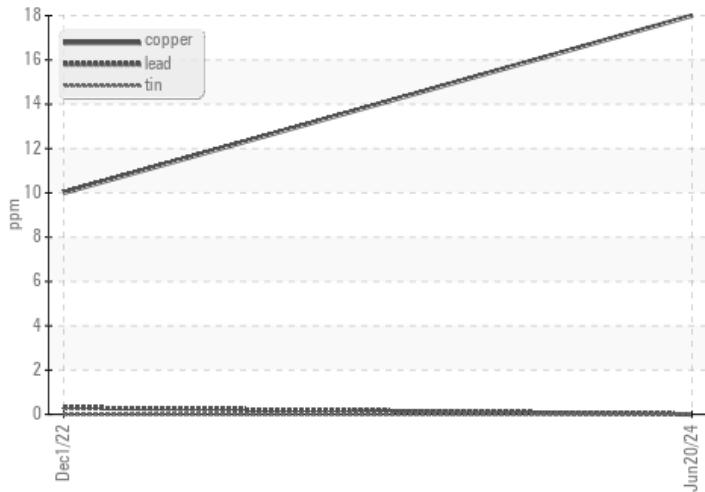


## GRAPHS

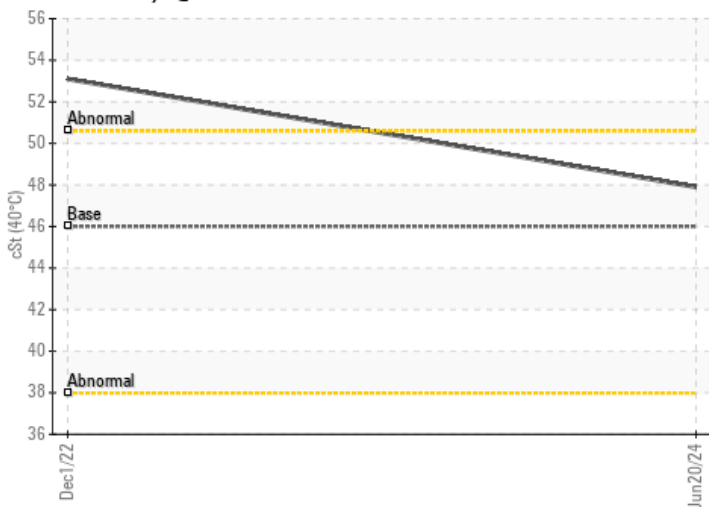
### Ferrous Alloys



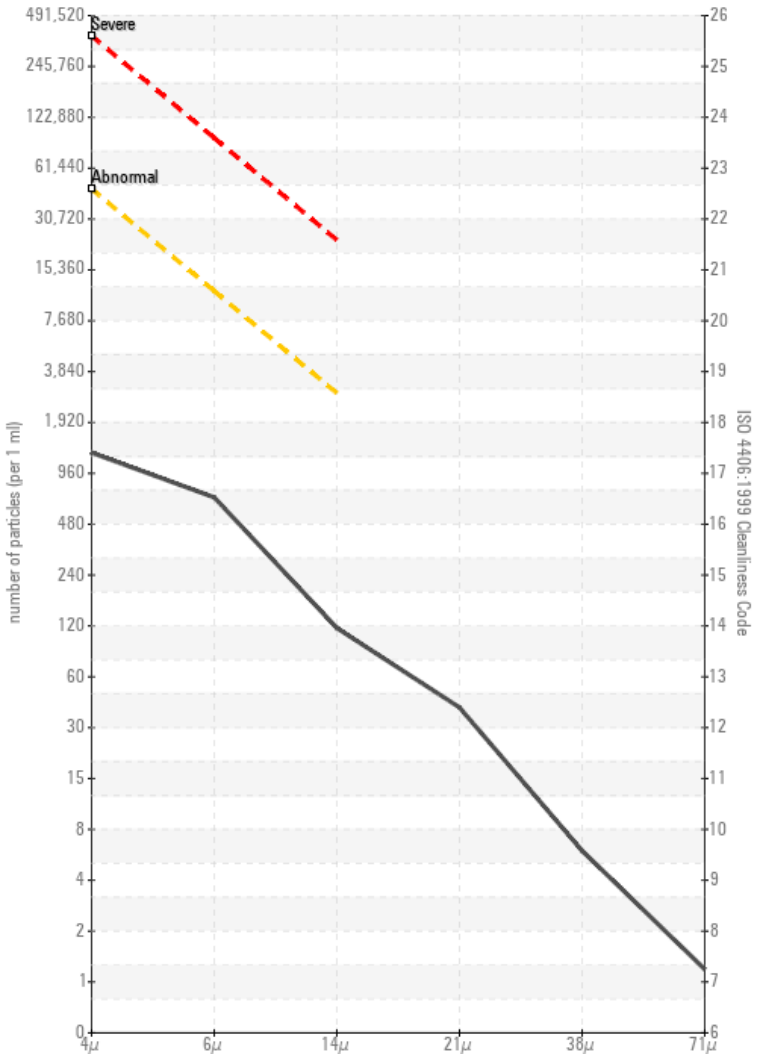
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

