



# CONSTRUCTION EQUIPMENT

## SPM621974 CATERPILLAR D8T KPZO1336 - HYDRAULIC SYSTEM



**Sample No:** VCP429888  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM621974



### SAMPLE INFORMATION

Sample Number	<b>VCP429888</b>	VCP420663	VCP400812	---
Sample Date	<b>02 Nov 2023</b>	25 Aug 2023	21 Feb 2023	---
Machine Hours	<b>9815</b>	9433	7449	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Changd</b>	Not Changd	Not Changd	---
Sample Status	<b>SEVERE</b>	SEVERE	NORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.1</b>	43.5	44.5	---
Acid Number (AN)	mg KOH/g	<b>0.51</b>	0.91	0.94	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		---	---	1917	---
Particles >6µm		---	---	322	---
Particles >14µm		---	---	23	---
ISO 4406:1999 (c)		---	---	18/16/12	---
Silicon	ppm	<b>8</b>	27	5	---
Sodium	ppm	<b>2</b>	0	1	---
Potassium	ppm	<b>0</b>	3	0	---

### Diagnosis

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level has decreased, but is still severe. All other component wear rates are normal. There is a high amount of visible silt present in the sample. The AN level is acceptable for this fluid.



### WEAR METALS

Iron	ppm	<b>55</b>	177	5	---
Copper	ppm	<b>8</b>	34	5	---
Lead	ppm	<b>0</b>	3	1	---
Tin	ppm	<b>0</b>	<1	0	---
Aluminum	ppm	<b>0</b>	3	2	---
Chromium	ppm	<b>9</b>	17	<1	---
Molybdenum	ppm	<b>&lt;1</b>	3	1	---
Nickel	ppm	<b>0</b>	<1	0	---
Titanium	ppm	<b>&lt;1</b>	<1	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	1	0	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>189</b>	566	450	---
Magnesium	ppm	<b>6</b>	26	23	---
Zinc	ppm	<b>464</b>	882	773	---
Phosphorus	ppm	<b>396</b>	765	664	---
Barium	ppm	<b>0</b>	2	0	---
Boron	ppm	<b>2</b>	13	<1	---

**Depot:** VOLVO8885  
**Unique No:** 10766942  
**Signed:** Don Baldrige  
**Report Date:** 05 Dec 2023

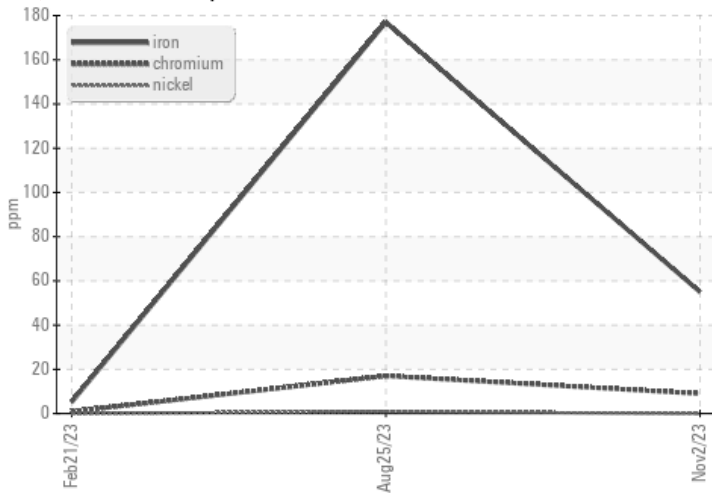


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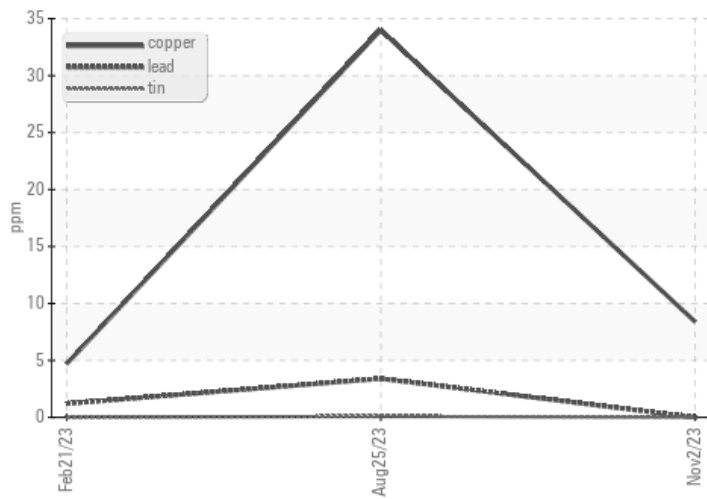


## GRAPHS

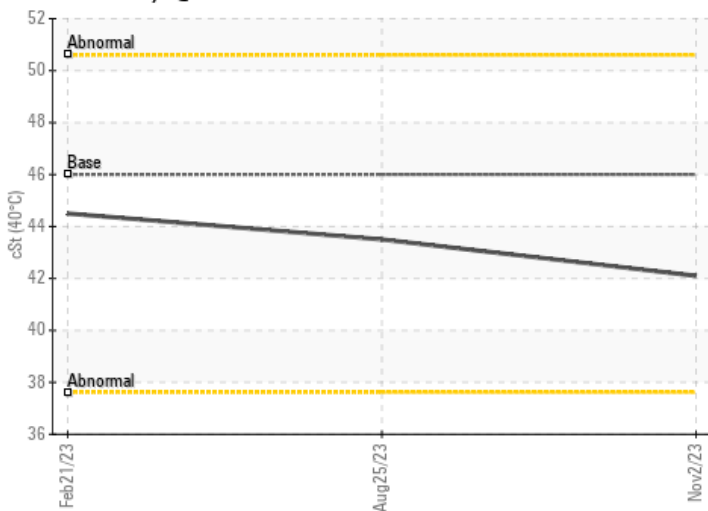
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

