



# CONSTRUCTION EQUIPMENT

## SPM595208 CATERPILLAR D8T KPZO1336 - HYDRAULIC SYSTEM



**Sample No:** VCP420663  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM595208



### SAMPLE INFORMATION

Sample Number	VCP420663	VCP400812	---	---
Sample Date	25 Aug 2023	21 Feb 2023	---	---
Machine Hours	9433	7449	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	SEVERE	NORMAL	---	---

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### OIL CONDITION

Visc @ 40°C	cSt	█ 43.5	█ 44.5	---	---
Acid Number (AN)	mg KOH/g	█ 0.91	█ 0.94	---	---



### CONTAMINATION

Particles >4µm		---	█ 1917	---	---
Particles >6µm		---	█ 322	---	---
Particles >14µm		---	█ 23	---	---
ISO 4406:1999 (c)		---	18/16/12	---	---
Silicon	ppm	▲ 27	█ 5	---	---
Sodium	ppm	█ 0	█ 1	---	---
Potassium	ppm	█ 3	█ 0	---	---

### Diagnosis

The filter change at the time of sampling has been noted. 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 is severe. The chromium level is abnormal. Elemental level of silicon (Si) above normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.



### WEAR METALS

Iron	ppm	● 177	█ 5	---	---
Copper	ppm	█ 34	█ 5	---	---
Lead	ppm	█ 3	█ 1	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 3	█ 2	---	---
Chromium	ppm	▲ 17	█ <1	---	---
Molybdenum	ppm	█ 3	1	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 1	0	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

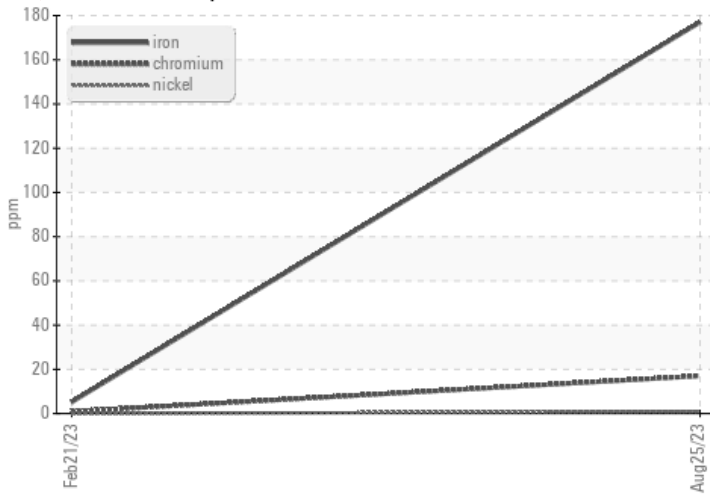
Calcium	ppm	566	450	---	---
Magnesium	ppm	█ 26	23	---	---
Zinc	ppm	█ 882	773	---	---
Phosphorus	ppm	█ 765	664	---	---
Barium	ppm	█ 2	0	---	---
Boron	ppm	█ 13	<1	---	---

**Depot:** VOLVO8885  
**Unique No:** 10631304  
**Signed:** Don Baldrige  
**Report Date:** 05 Sep 2023

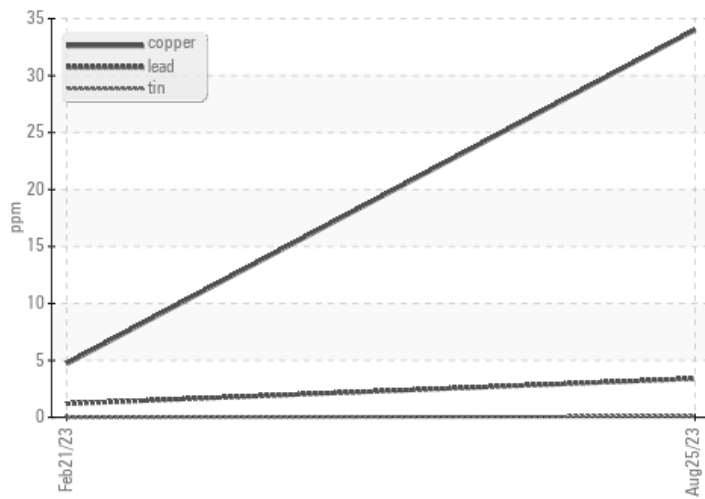


## GRAPHS

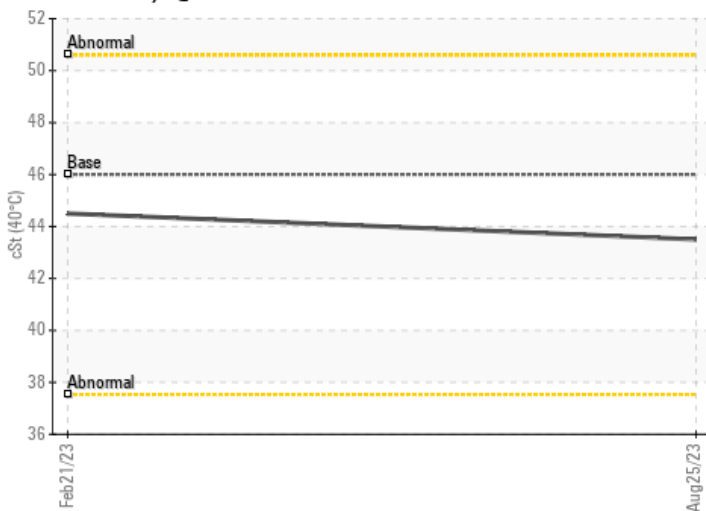
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

