



CONSTRUCTION EQUIPMENT

225088 CEDAR GROVE VOLVO L180H 542Z - HYDRAULIC SYSTEM



Sample No: VCP424166
Oil Type: NOT GIVEN
Job No: 225088 CEDAR GROVE



SAMPLE INFORMATION

Sample Number	VCP424166	---	---	---
Sample Date	17 Aug 2023	---	---	---
Machine Hours	3060	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

PACWEST MACHINERY

8207 SOUTH 216TH STREET
 KENT, WA
 US 98032

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 tgustin@pacwestmachinery.com
 T: (800)935-5933
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OIL CONDITION

Visc @ 40°C	cSt	█ 41.8	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.36	---	---	---



CONTAMINATION

Particles >4µm		▲ 16873	---	---	---
Particles >6µm		▲ 3349	---	---	---
Particles >14µm		▲ 245	---	---	---
ISO 4406:1999 (c)		21/19/15	---	---	---
Silicon	ppm	█ 2	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 2	---	---	---

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 10W AW Hydraulic Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	█ 4	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	51	---	---	---
Magnesium	ppm	<1	---	---	---
Zinc	ppm	430	---	---	---
Phosphorus	ppm	334	---	---	---
Barium	ppm	2	---	---	---
Boron	ppm	0	---	---	---

Depot: VOLVO1271
Unique No: 10618743
Signed: Wes Davis
Report Date: 28 Aug 2023

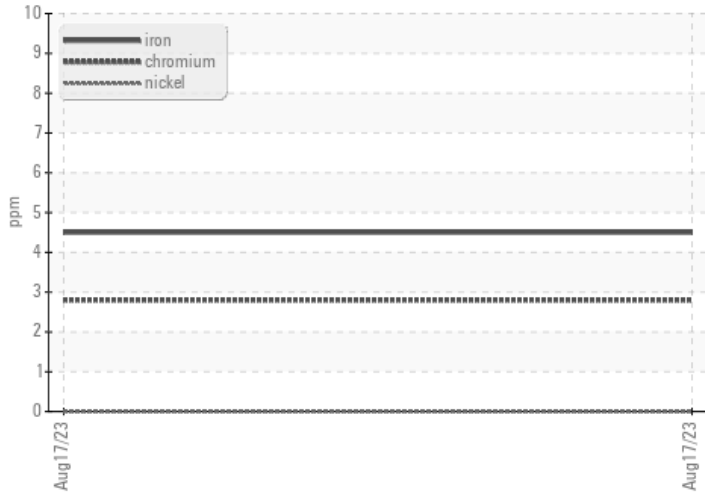


CONSTRUCTION EQUIPMENT

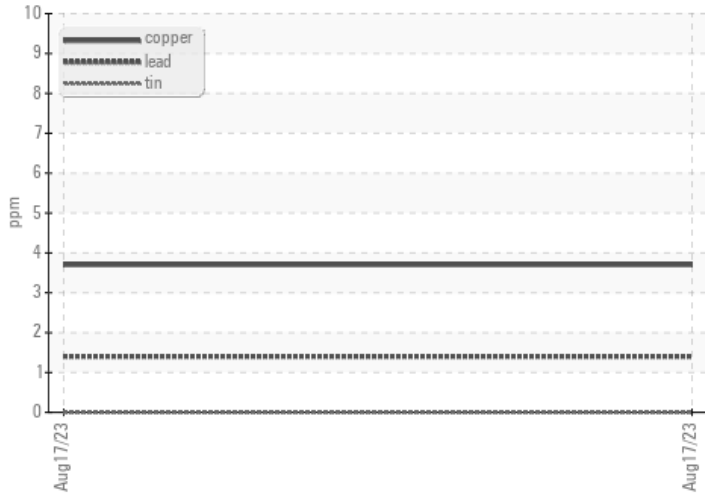


GRAPHS

Ferrous Alloys



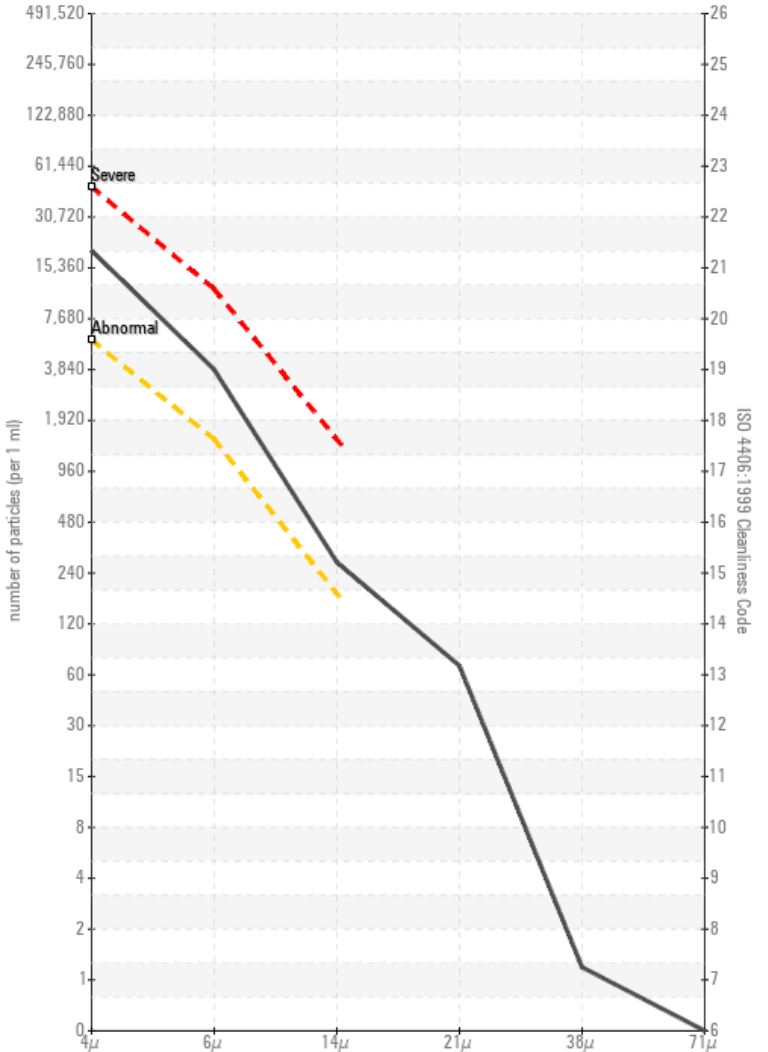
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

