



CONSTRUCTION EQUIPMENT

SWA491137 VOLVO DD120C 288075 - HYDRAULIC SYSTEM



Sample No: VCP431231
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA491137



SAMPLE INFORMATION

Sample Number	VCP431231	VCP368744	---	---
Sample Date	22 Feb 2024	30 Nov 2022	---	---
Machine Hours	3420	3248	---	---
Oil Hours	3420	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	NORMAL	---	---

ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
 Contact: JIM STRIGLE
 JIM.STRIGLE@ALTG.COM
 T: (315)437-2611
 F: (315)434-9471



OIL CONDITION

Visc @ 40°C	cSt	43.0	43.0	---	---
Acid Number (AN)	mg KOH/g	0.38	0.35	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		▲ 10175	2432	---	---
Particles >6µm		▲ 2486	506	---	---
Particles >14µm		■ 147	66	---	---
ISO 4406:1999 (c)		21/18/14	18/16/13	---	---
Silicon	ppm	■ <1	1	---	---
Sodium	ppm	■ 2	<1	---	---
Potassium	ppm	■ 0	0	---	---

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. 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	■ 3	5	---	---
Copper	ppm	■ 5	5	---	---
Lead	ppm	■ <1	<1	---	---
Tin	ppm	■ 0	0	---	---
Aluminum	ppm	■ 0	<1	---	---
Chromium	ppm	■ 0	0	---	---
Molybdenum	ppm	■ 0	<1	---	---
Nickel	ppm	■ 0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 0	0	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 55	89	---	---
Magnesium	ppm	■ 0	2	---	---
Zinc	ppm	■ 296	360	---	---
Phosphorus	ppm	■ 337	403	---	---
Barium	ppm	■ 0	0	---	---
Boron	ppm	■ 0	0	---	---

Depot: VOLV00142
Unique No: 10898313
Signed: Wes Davis
Report Date: 27 Feb 2024

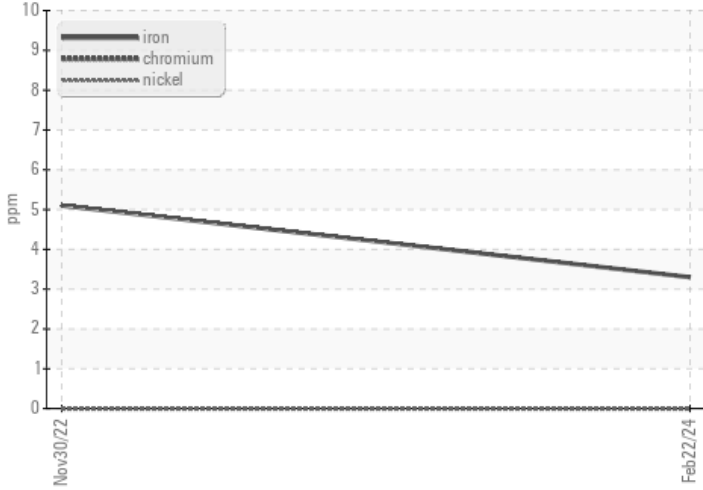


CONSTRUCTION EQUIPMENT

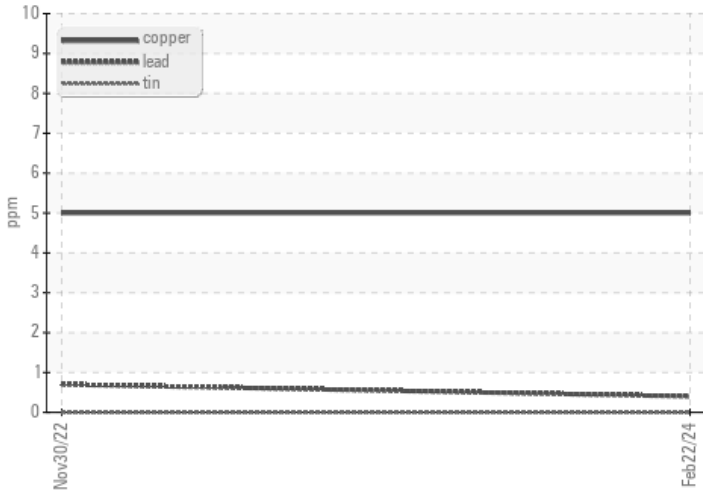


GRAPHS

Ferrous Alloys



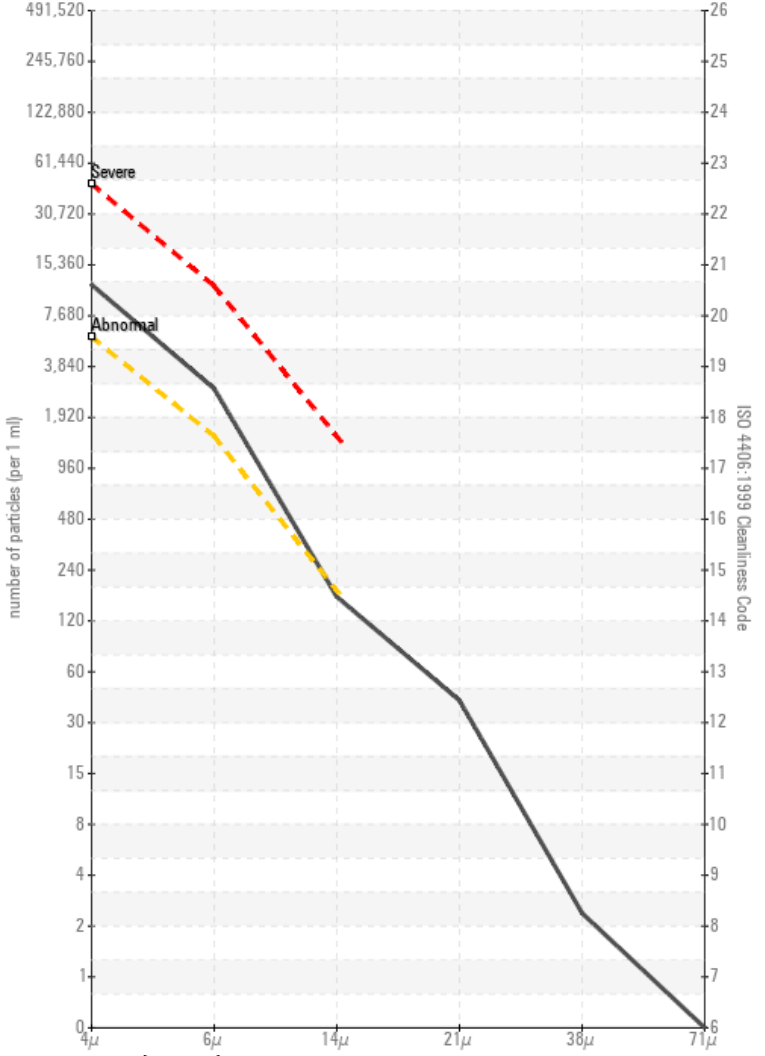
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

