



CONSTRUCTION EQUIPMENT

S50601798 IAA BAY PT VOLVO L90H 624600 - HYDRAULIC SYSTEM



Sample No: VCP335355
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: S50601798 IAA BAY PT



SAMPLE INFORMATION

Sample Number	VCP335355	VCP340509	VCP293820	---
Sample Date	16 Feb 2024	09 Jan 2023	06 Oct 2021	---
Machine Hours	9504	7523	5204	---
Oil Hours	0	2000	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	SEVERE	NORMAL	ATTENTION	---

VCES- VOLVO CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 40°C	cSt	43.2	43.3	43.5	---
Acid Number (AN)	mg KOH/g	0.24	0.28	0.299	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		34385	1335	1108	---
Particles >6µm		13297	211	240	---
Particles >14µm		1496	11	14	---
ISO 4406:1999 (c)		22/21/18	18/15/11	17/15/11	---
Silicon	ppm	3	3	2	---
Sodium	ppm	1	<1	2	---
Potassium	ppm	0	0	0	---

Diagnosis

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 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	<1	2	2	---
Copper	ppm	<1	<1	2	---
Lead	ppm	0	<1	1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	0	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	57	56	74	---
Magnesium	ppm	<1	<1	<1	---
Zinc	ppm	439	454	465	---
Phosphorus	ppm	332	339	334	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	<1	---

Depot: VOLVO4487
Unique No: 10890482
Signed: Wes Davis
Report Date: 23 Feb 2024

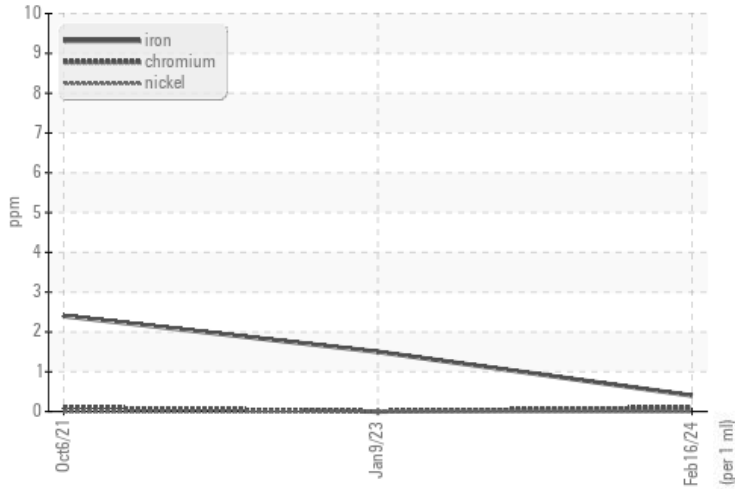


CONSTRUCTION EQUIPMENT

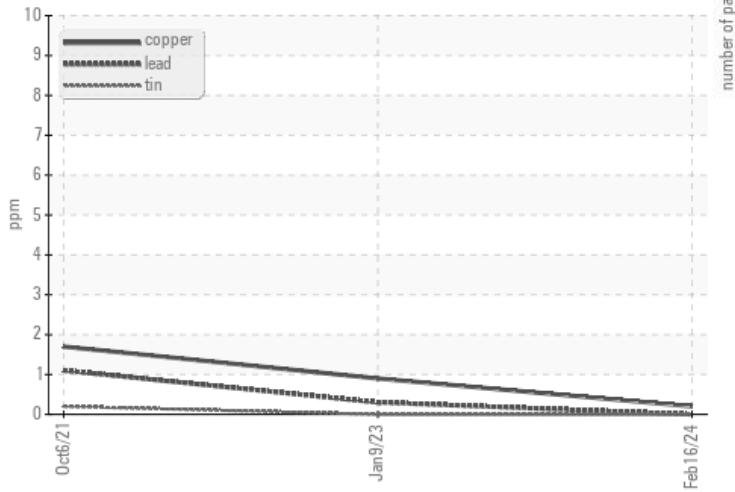


GRAPHS

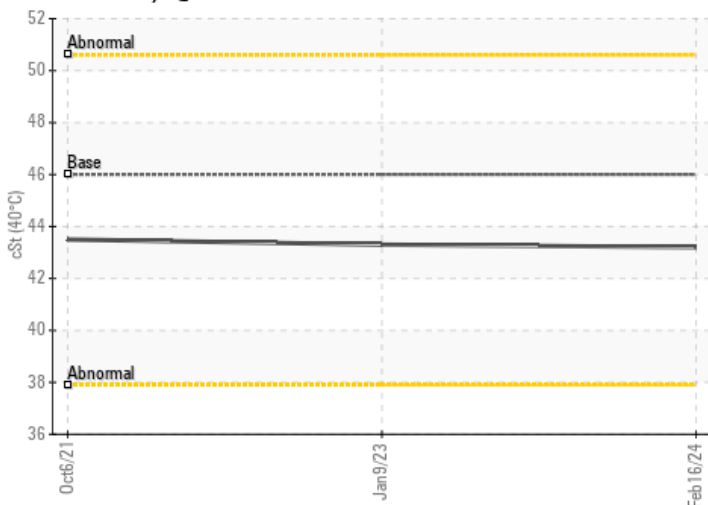
Ferrous Alloys



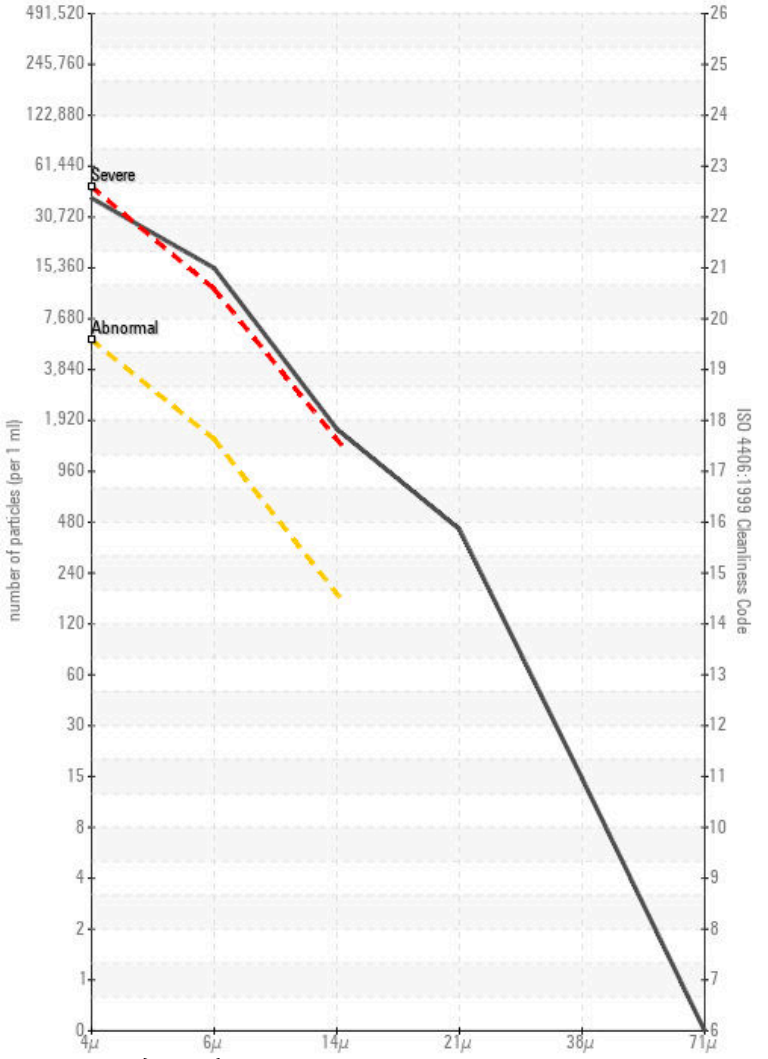
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

