



CONSTRUCTION EQUIPMENT

VOLVO L150H 7044 - HYDRAULIC SYSTEM



Sample No: VCP455497
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP455497	VCP376069	---	---
Sample Date	13 May 2024	01 Nov 2023	---	---
Machine Hours	4048	2819	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	SEVERE	ABNORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 50.3	█ 42.9	---	---
Acid Number (AN)	mg KOH/g	█ 0.37	█ 0.45	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		▲ 48334	▲ 37541	---	---
Particles >6µm		▲ 16606	▲ 8478	---	---
Particles >14µm		▲ 1220	▲ 597	---	---
ISO 4406:1999 (c)		23/21/17	22/20/16	---	---
Silicon	ppm	█ 3	█ 1	---	---
Sodium	ppm	█ 1	█ 1	---	---
Potassium	ppm	█ 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	█ 3	█ 1	---	---
Copper	ppm	█ 3	█ 5	---	---
Lead	ppm	█ 1	█ <1	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ <1	█ 0	---	---
Chromium	ppm	█ <1	█ 0	---	---
Molybdenum	ppm	█ 0	█ 0	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 0	█ 0	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 60	█ 54	---	---
Magnesium	ppm	█ 2	█ 0	---	---
Zinc	ppm	█ 426	█ 396	---	---
Phosphorus	ppm	█ 327	█ 309	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 0	█ 0	---	---

Depot: VOLVO0090
Unique No: 11035539
Signed: Wes Davis
Report Date: 21 May 2024

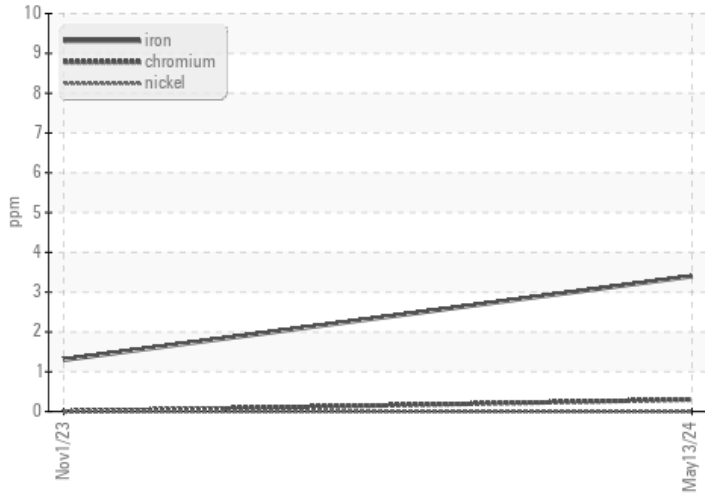


CONSTRUCTION EQUIPMENT

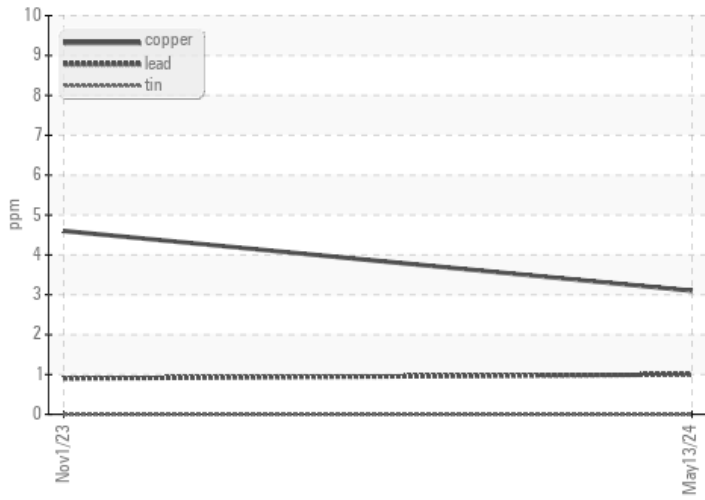


GRAPHS

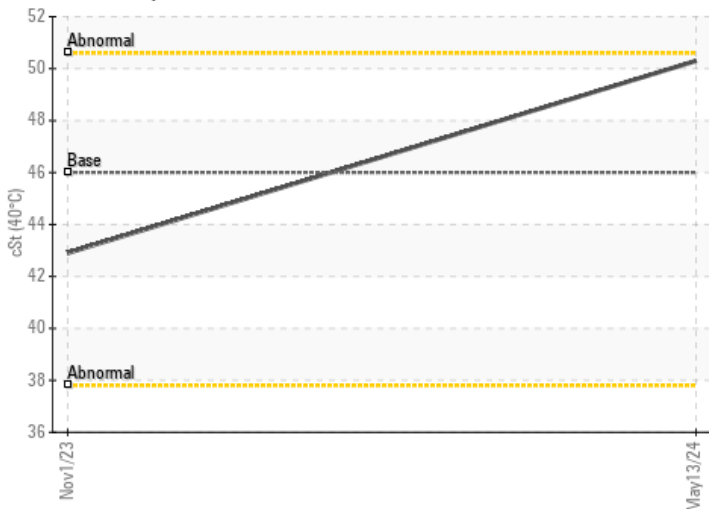
Ferrous Alloys



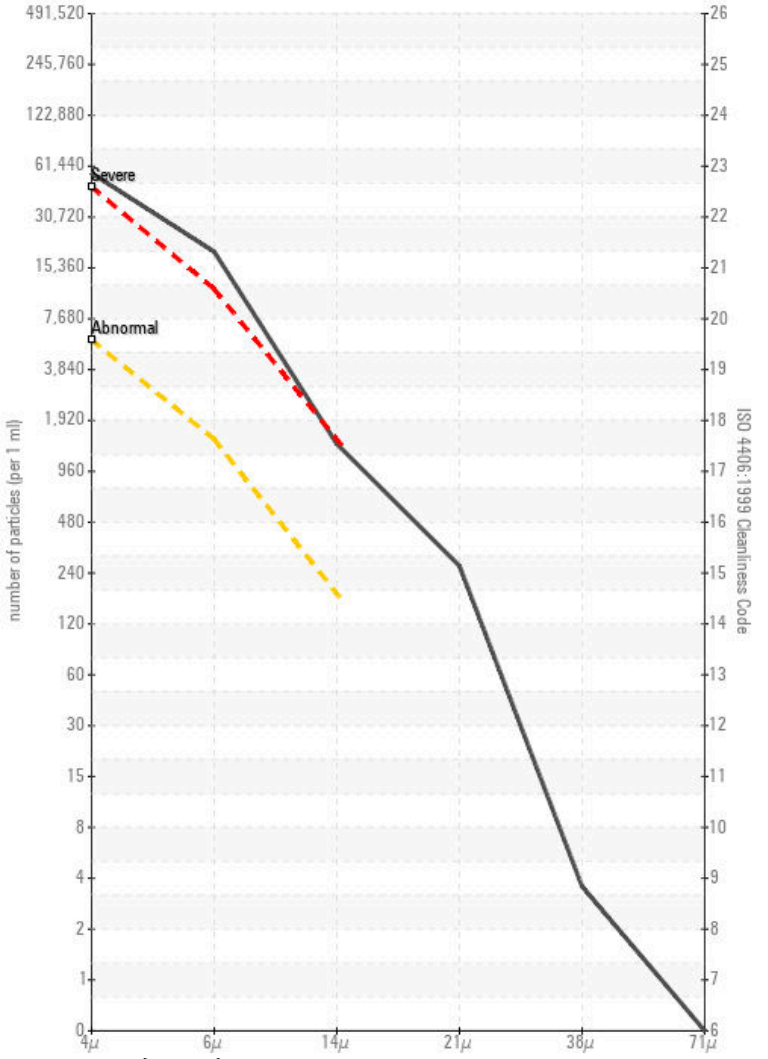
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

