



CONSTRUCTION EQUIPMENT

392231 VOLVO L90B 61843 - HYDRAULIC SYSTEM



Sample No: VCP380412
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 392231



SAMPLE INFORMATION

Sample Number	VCP380412	---	---	---
Sample Date	21 Feb 2024	---	---	---
Machine Hours	24721	---	---	---
Oil Hours	2000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

STRONGCO EQUIP (AB)

6 - 38403 BURNT LAKE TRAIL
 RED DEER COUNTY, AB
 CA T4S 2L4
 Contact: Perry Doyle
 pdoyle@strongco.com
 T: (403)391-3520
 F: (403)346-3487



OIL CONDITION

Visc @ 40°C	cSt	▲ 32.8	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		● 52499	---	---	---
Particles >6µm		▲ 3303	---	---	---
Particles >14µm		■ 159	---	---	---
ISO 4406:1999 (c)		23/19/14	---	---	---
Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 2	---	---	---



WEAR METALS

Iron	ppm	■ 13	---	---	---
Copper	ppm	■ 4	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ < 1	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	2932	---	---	---
Magnesium	ppm	■ 10	---	---	---
Zinc	ppm	1150	---	---	---
Phosphorus	ppm	1025	---	---	---
Barium	ppm	■ 3	---	---	---
Boron	ppm	■ 9	---	---	---

Diagnosis

Check seals and/or filters for points of contaminant entry. 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. The filter change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation. The fluid was specified as VOLVO SUPER HYDRAULIC OIL 46, however, a fluid match indicates that this fluid is SAE 70W80 Tractor TDH Fluid. Please confirm the oil type and grade on your next sample. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within SAE 70W80 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: VOLVO9652
Unique No: 5734538
Signed: Kevin Marson
Report Date: 26 Feb 2024

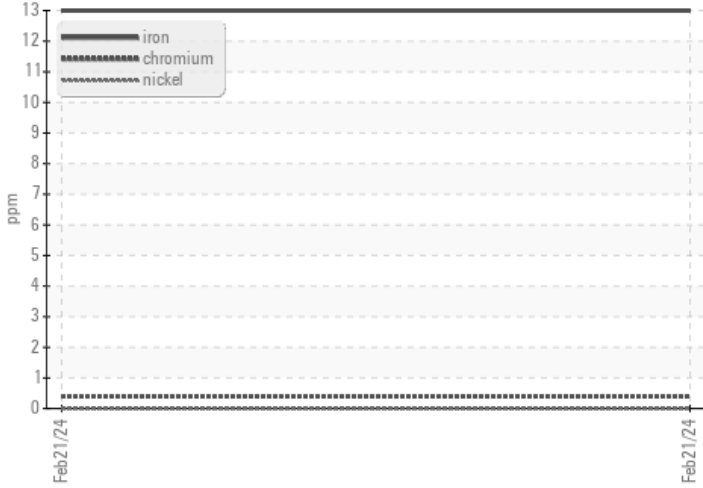


CONSTRUCTION EQUIPMENT

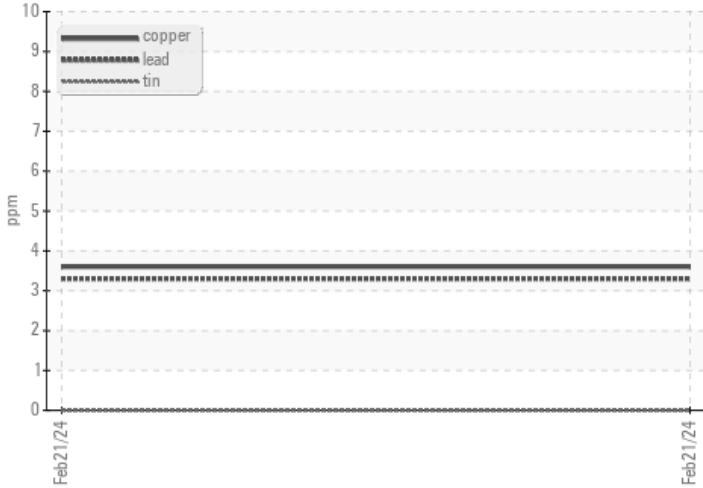


VOLVO GRAPHS

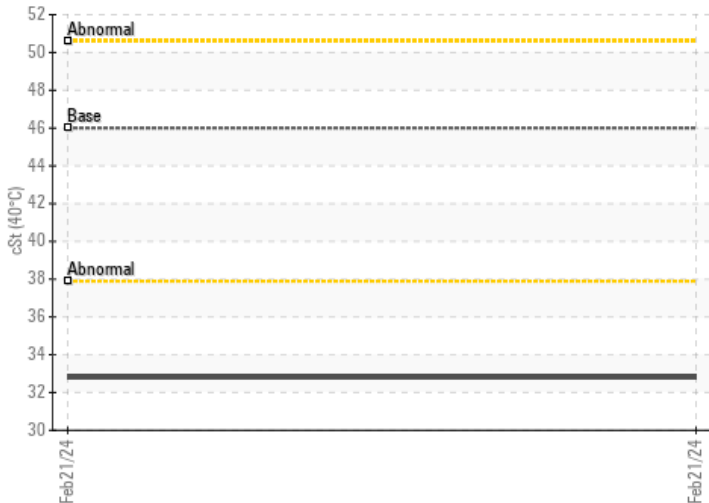
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

