



CONSTRUCTION EQUIPMENT

S50601935 VOLVO L90H 625921 - HYDRAULIC SYSTEM



Sample No: VCP446695
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: S50601935



SAMPLE INFORMATION

Sample Number	VCP446695	VCP338531	---	---
Sample Date	19 Mar 2024	05 Jan 2023	---	---
Machine Hours	4452	2195	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

VCES- VOLVO CONSTRUCTION EQUIPMENT

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OIL CONDITION

Visc @ 40°C	cSt	42.8	42.9	---	---
Acid Number (AN)	mg KOH/g	0.28	0.30	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		9835	9309	---	---
Particles >6µm		2807	1658	---	---
Particles >14µm		242	119	---	---
ISO 4406:1999 (c)		20/19/15	20/18/14	---	---
Silicon	ppm	4	5	---	---
Sodium	ppm	2	0	---	---
Potassium	ppm	<1	<1	---	---

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	6	4	---	---
Copper	ppm	2	3	---	---
Lead	ppm	2	1	---	---
Tin	ppm	3	0	---	---
Aluminum	ppm	<1	0	---	---
Chromium	ppm	1	<1	---	---
Molybdenum	ppm	<1	<1	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	0	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	73	81	---	---
Magnesium	ppm	<1	5	---	---
Zinc	ppm	408	467	---	---
Phosphorus	ppm	309	374	---	---
Barium	ppm	0	0	---	---
Boron	ppm	<1	<1	---	---

Depot: VOLVO4487
Unique No: 10940522
Signed: Wes Davis
Report Date: 25 Mar 2024

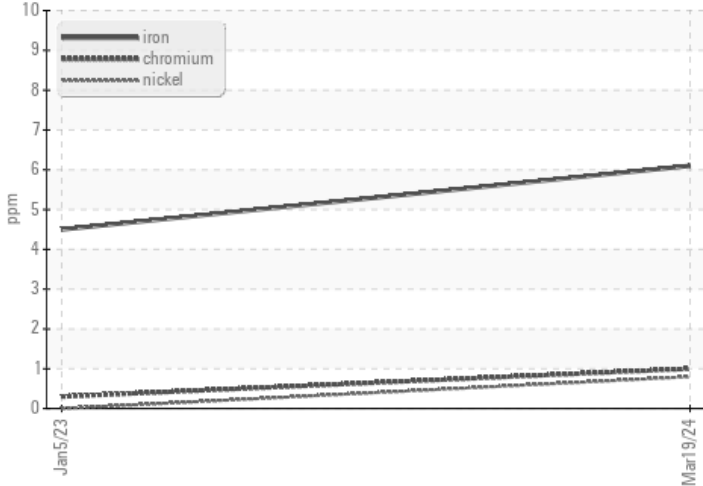


CONSTRUCTION EQUIPMENT

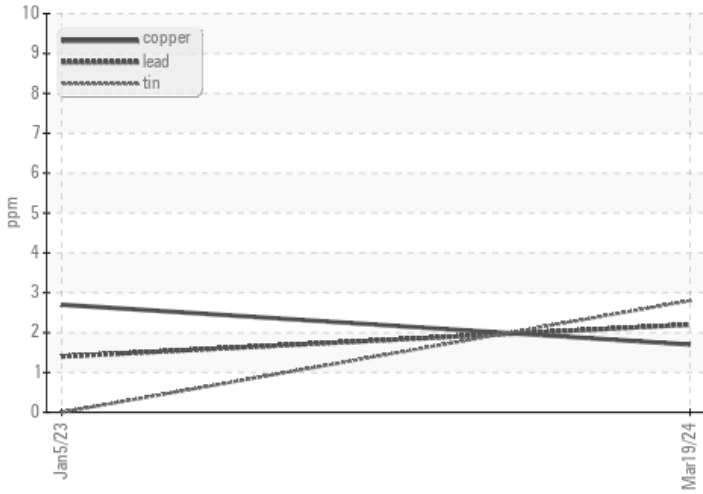


GRAPHS

Ferrous Alloys



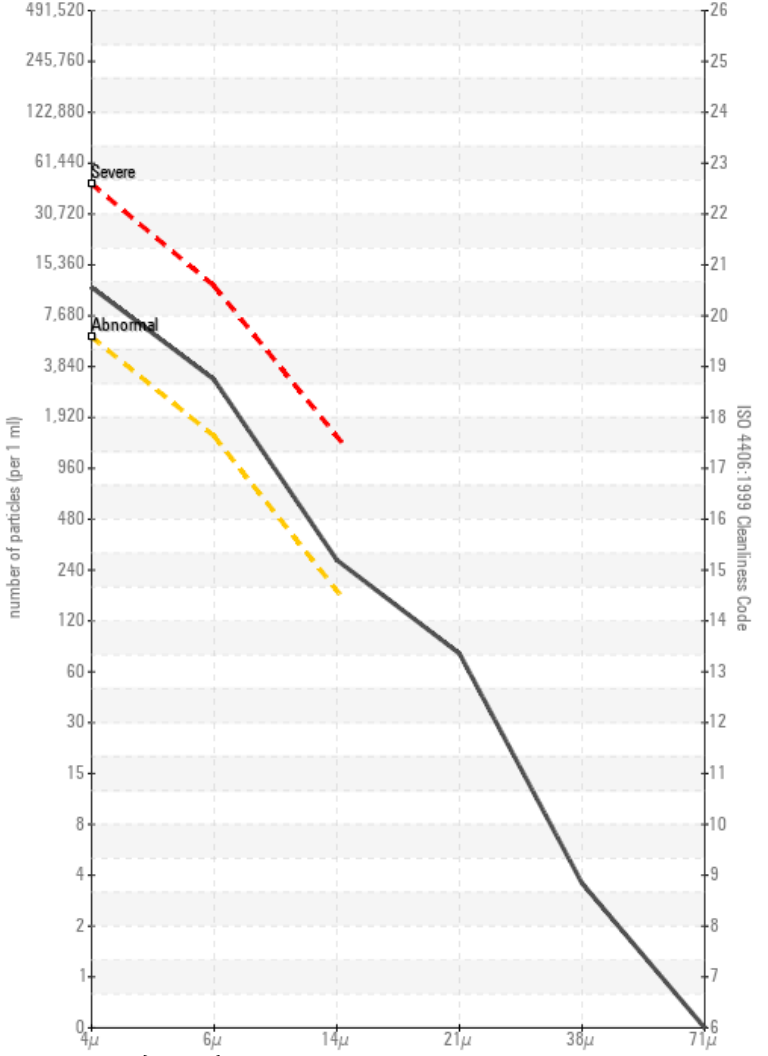
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

