



CONSTRUCTION EQUIPMENT

IAA VOLVO L90H 623048 - HYDRAULIC SYSTEM



Sample No: VCP418608
Oil Type: CHEVRON HYDRAULIC OIL AW ISO 46
Job No: IAA



SAMPLE INFORMATION

Sample Number	VCP418608	---	---	---
Sample Date	31 Aug 2023	---	---	---
Machine Hours	15585	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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 1150 WEST OLD SETTLERS BOULEVARD
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OIL CONDITION

Visc @ 40°C	cSt	▲ 37.84	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.33	---	---	---



CONTAMINATION

Particles >4µm		▲ 16497	---	---	---
Particles >6µm		▲ 5223	---	---	---
Particles >14µm		▲ 372	---	---	---
ISO 4406:1999 (c)		21/20/16	---	---	---
Silicon	ppm	■ 2	---	---	---
Sodium	ppm	■ 36	---	---	---
Potassium	ppm	■ 89	---	---	---

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.



WEAR METALS

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



ADDITIVES

Calcium	ppm	■ 0	---	---	---
Magnesium	ppm	■ 16	---	---	---
Zinc	ppm	▲ 8	---	---	---
Phosphorus	ppm	▲ 85	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 1	---	---	---

Depot: VOLVO0088
Unique No: 10659797
Signed: Doug Bogart
Report Date: 28 Sep 2023

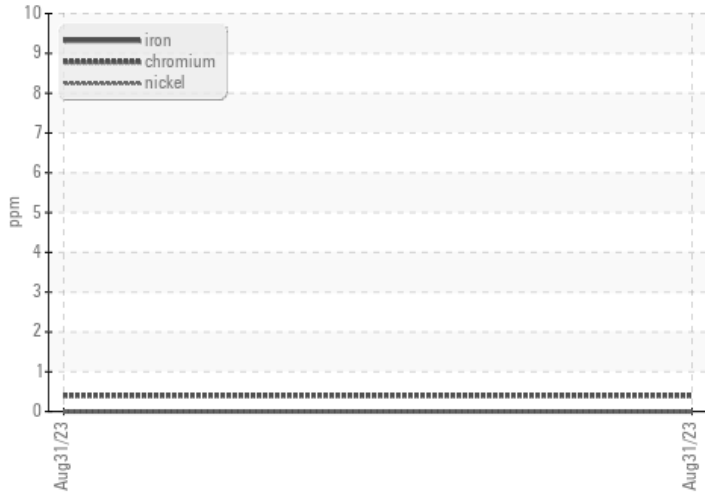


CONSTRUCTION EQUIPMENT

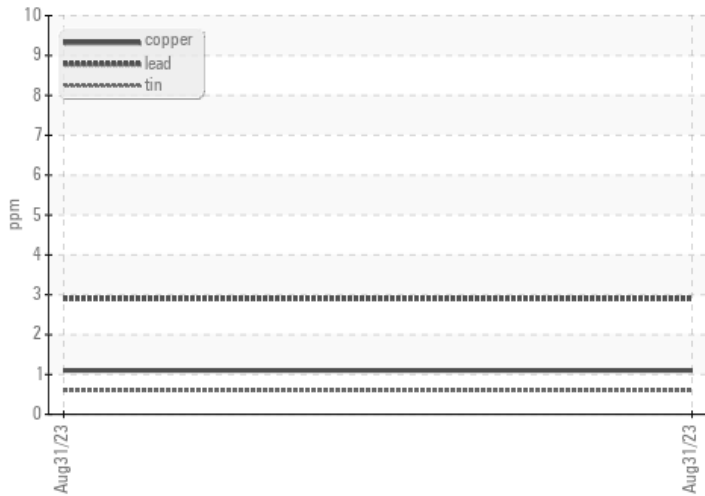


GRAPHS

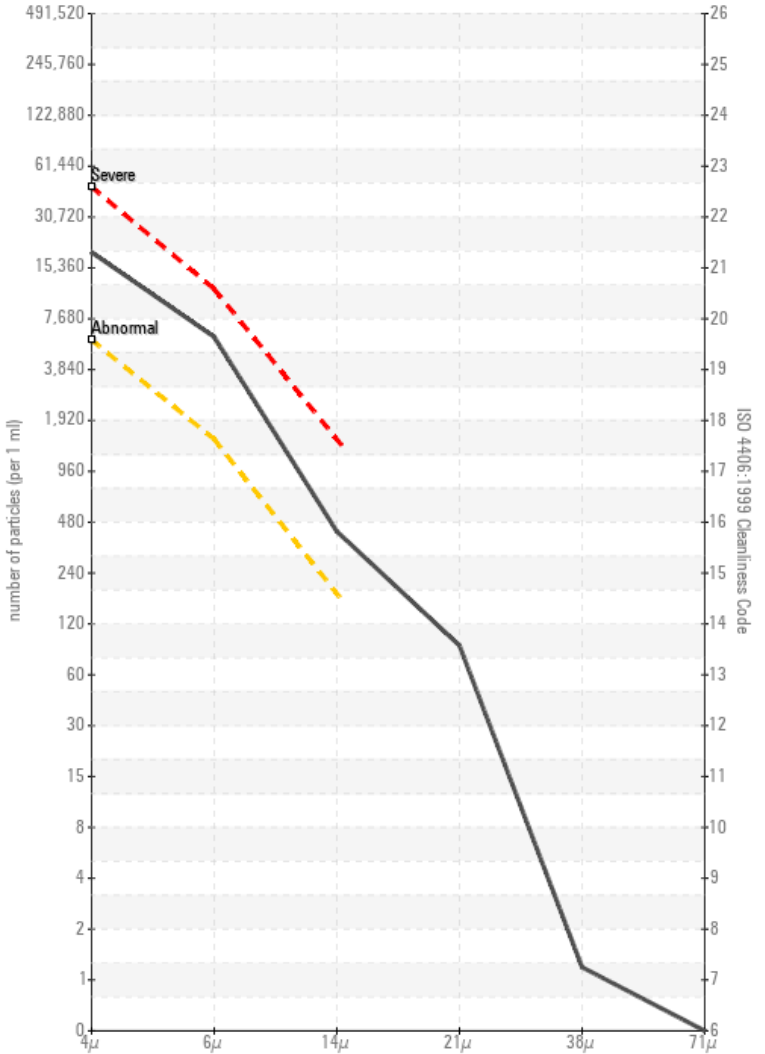
Ferrous Alloys



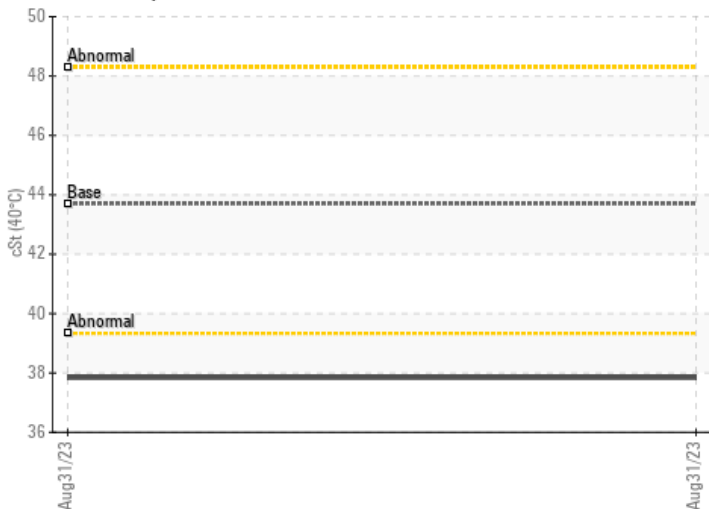
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number

