



CONSTRUCTION EQUIPMENT

SW1028727 BALCONES VOLVO L120H 633345 - HYDRAULIC SYSTEM



Sample No: VCP436938
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SW1028727 BALCONES



SAMPLE INFORMATION

Sample Number	VCP436938	---	---	---
Sample Date	15 Jan 2024	---	---	---
Machine Hours	2124	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

ARNOLD MACHINERY COMPANY
 4323 EAST WINSLOW AVENUE
 PHOENIX, AZ
 US 85040
 Contact: RANDY PRZEKURAT
 randyp@arnoldmachinery.com
 T:
 F: (602)414-1904



OIL CONDITION

Visc @ 40°C	cSt	█ 42.2	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.34	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 7950	---	---	---
Particles >6µm		█ 2168	---	---	---
Particles >14µm		▲ 158	---	---	---
ISO 4406:1999 (c)		20/18/14	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 2	---	---	---

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	█ 5	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 63	---	---	---
Magnesium	ppm	█ 3	---	---	---
Zinc	ppm	█ 414	---	---	---
Phosphorus	ppm	█ 346	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: VOLVO6174
Unique No: 10845699
Signed: Wes Davis
Report Date: 25 Jan 2024

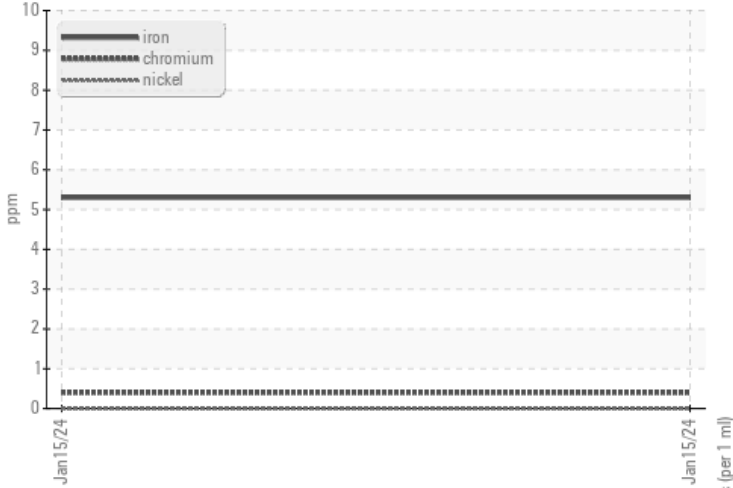


CONSTRUCTION EQUIPMENT

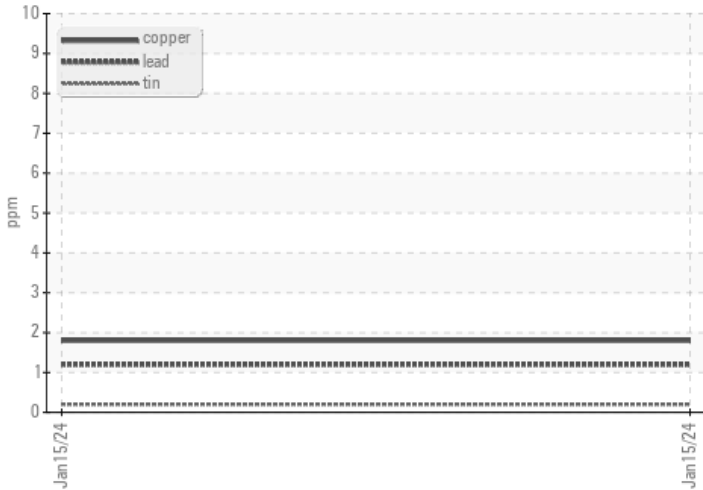


GRAPHS

Ferrous Alloys



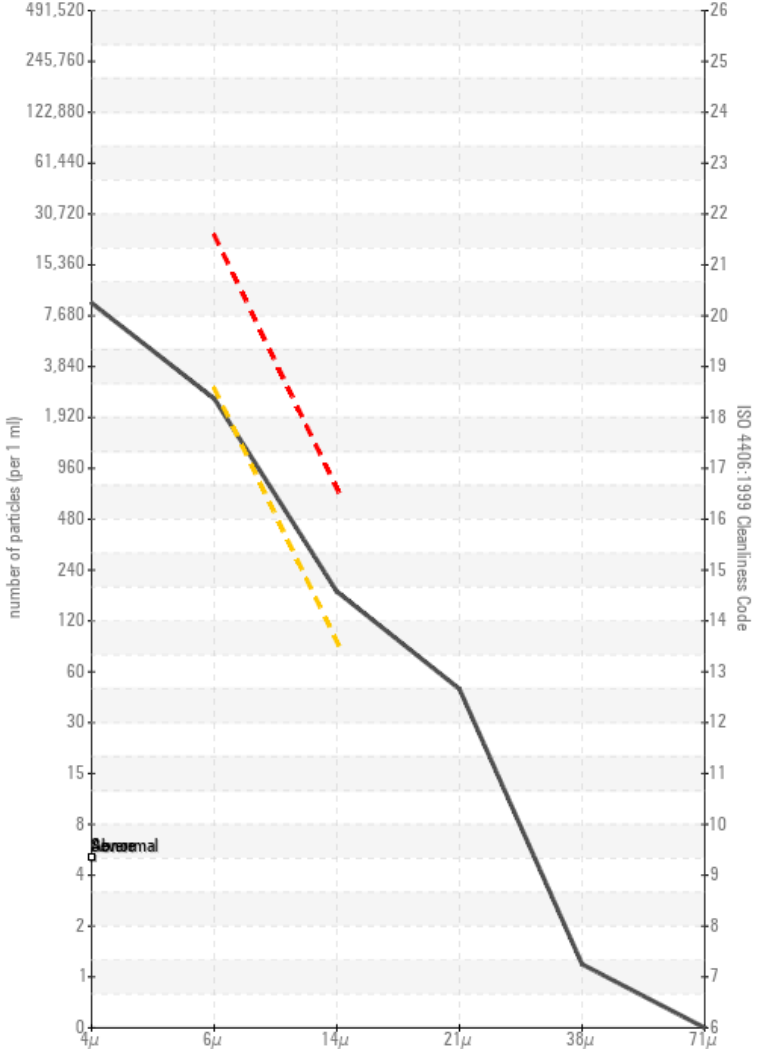
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

