



CONSTRUCTION EQUIPMENT

SW1027988 DIAMOND MA VOLVO A40D 12032 - HYDRAULIC SYSTEM



Sample No: VCP427151
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SW1027988 DIAMOND MA



ARNOLD MACHINERY COMPANY
 4323 EAST WINSLOW AVENUE
 PHOENIX, AZ
 US 85040
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SAMPLE INFORMATION

Sample Number	VCP427151	---	---	---
Sample Date	03 Jan 2024	---	---	---
Machine Hours	6905	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	█ 49.1	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.62	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 151231	---	---	---
Particles >6µm		▲ 52112	---	---	---
Particles >14µm		▲ 3532	---	---	---
ISO 4406:1999 (c)		24/23/19	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

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



ADDITIVES

Calcium	ppm	█ 718	---	---	---
Magnesium	ppm	█ 20	---	---	---
Zinc	ppm	█ 616	---	---	---
Phosphorus	ppm	█ 506	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: VOLVO6174
Unique No: 10836918
Signed: Wes Davis
Report Date: 23 Jan 2024

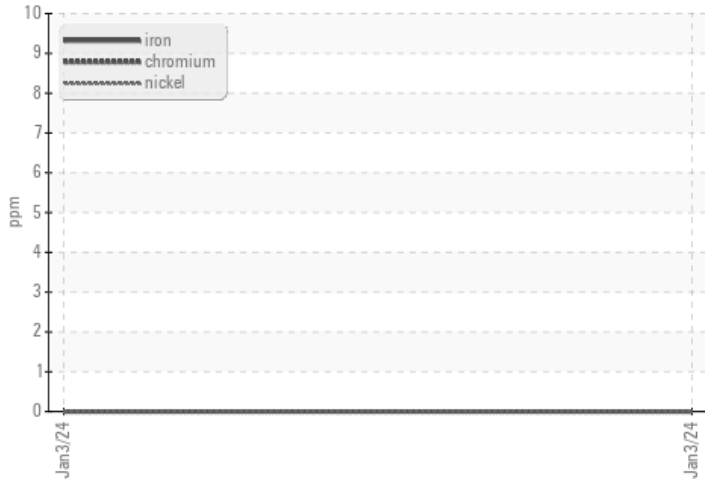


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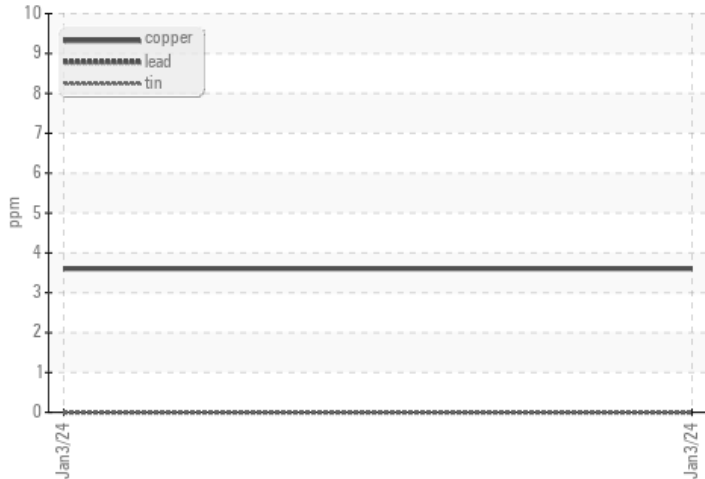


GRAPHS

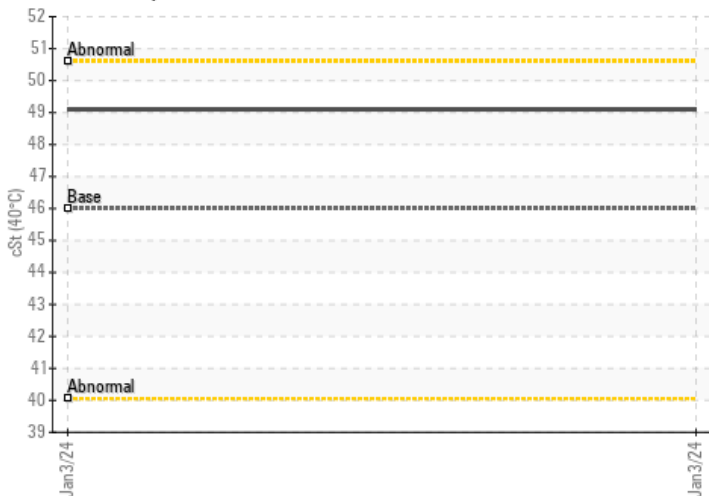
Ferrous Alloys



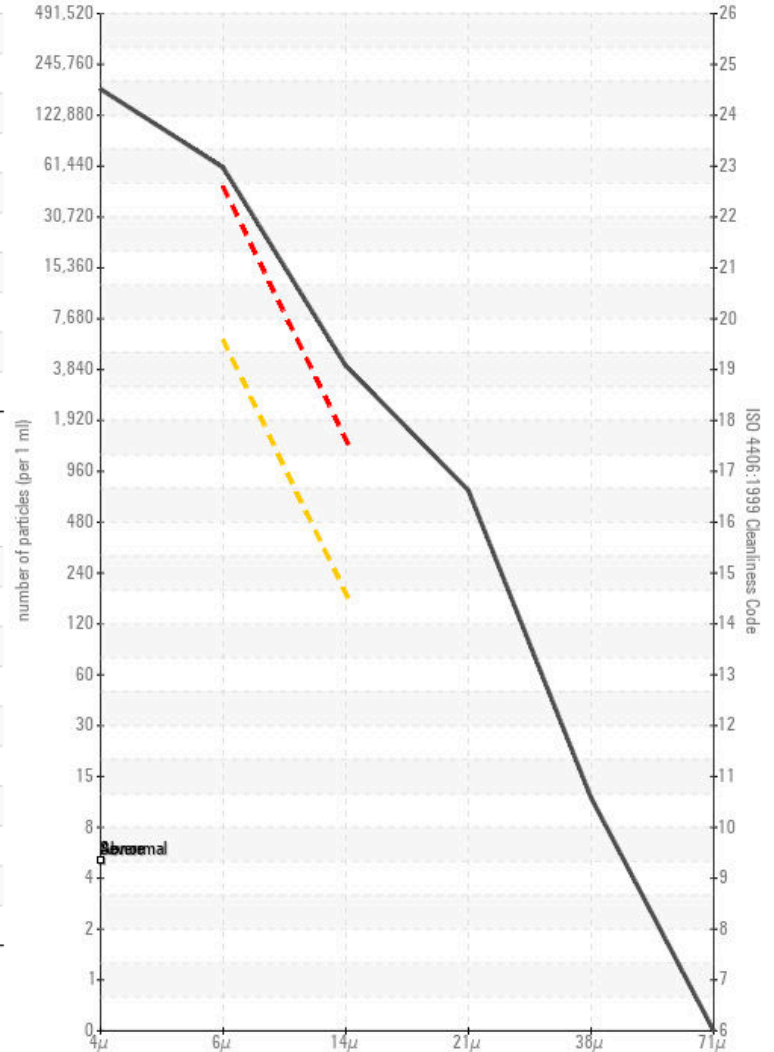
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

