



CONSTRUCTION EQUIPMENT

SW29498 JEFFERSON CO VOLVO DD138HFA 275206 - HYDRAULIC SYSTEM



Sample No: VCP363165
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SW29498 JEFFERSON CO



SAMPLE INFORMATION

Sample Number	VCP363165	---	---	---
Sample Date	30 Jan 2024	---	---	---
Machine Hours	2795	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

ARNOLD MACHINERY COMPANY
 3330 NORTH YELLOWSTONE HIGHWAY
 IDAHO FALLS, ID
 US 83401
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OIL CONDITION

Visc @ 40°C	cSt	█ 43.2	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.21	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 1251	---	---	---
Particles >6µm		█ 92	---	---	---
Particles >14µm		█ 3	---	---	---
ISO 4406:1999 (c)		17/14/9	---	---	---
Silicon	ppm	█ 0	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 0	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	█ 93	---	---	---
Magnesium	ppm	█ 0	---	---	---
Zinc	ppm	█ 225	---	---	---
Phosphorus	ppm	█ 234	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ <1	---	---	---

Depot: VOLVO0077
Unique No: 10869907
Signed: Wes Davis
Report Date: 08 Feb 2024

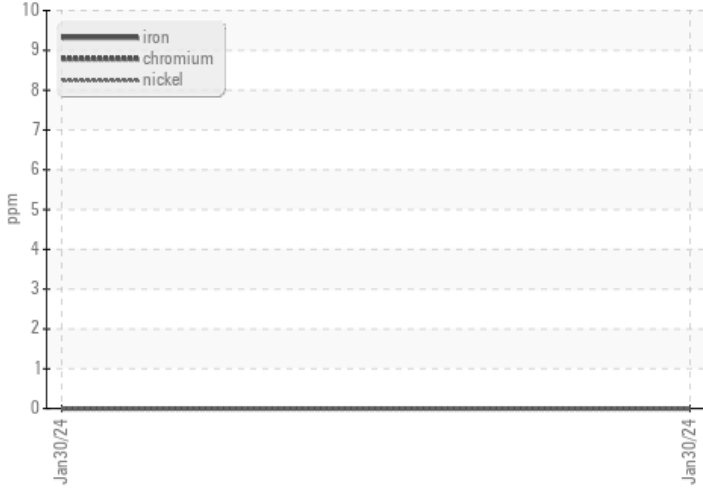


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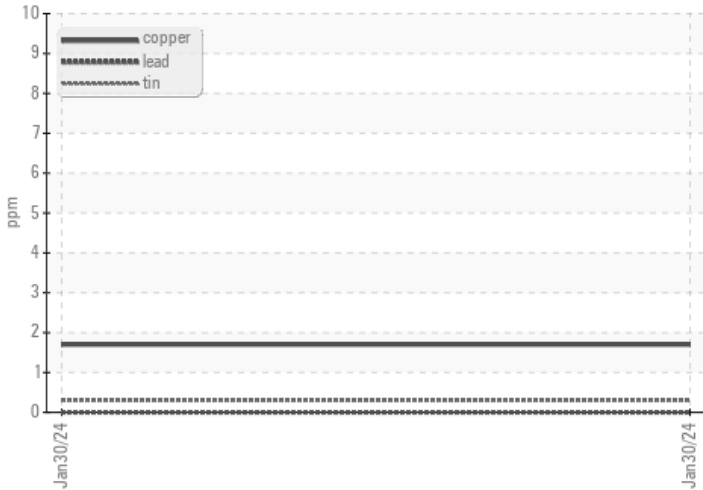


GRAPHS

Ferrous Alloys



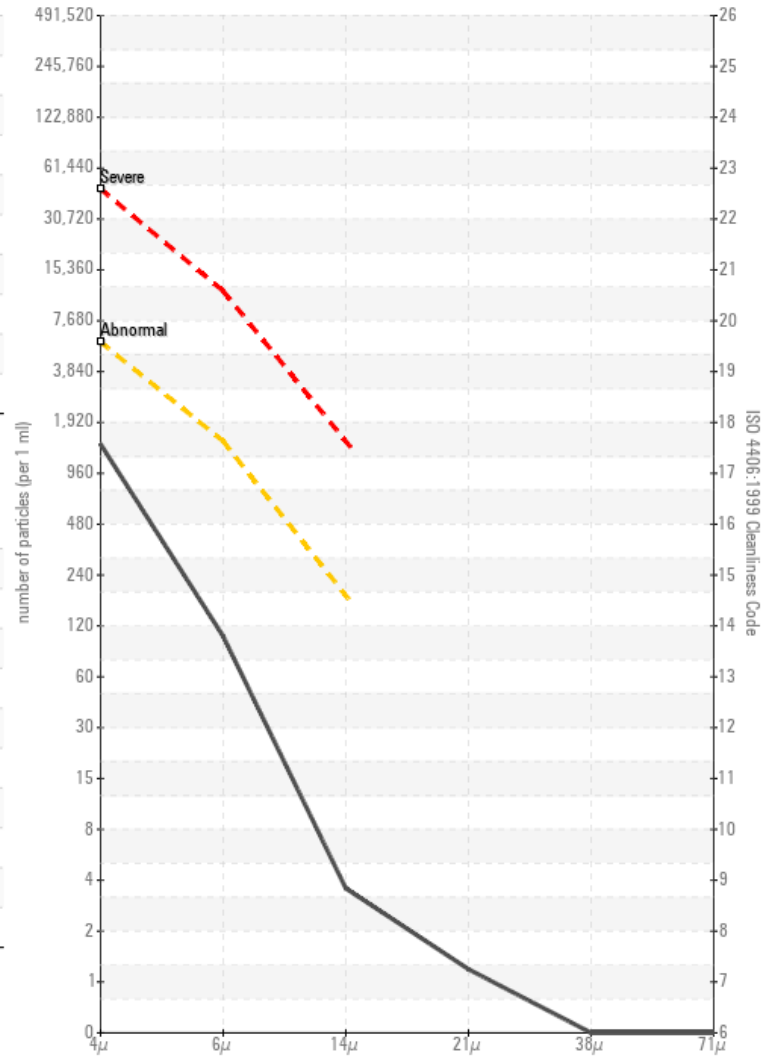
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

