



CONSTRUCTION EQUIPMENT

SW1026683 MGC VOLVO ECR40D 14219 - HYDRAULIC SYSTEM



Sample No: VCP405394
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SW1026683 MGC



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



SAMPLE INFORMATION

Sample Number	VCP405394	---	---	---
Sample Date	22 Nov 2023	---	---	---
Machine Hours	950	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	█ 42.1	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.42	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 52957	---	---	---
Particles >6µm		█ 3604	---	---	---
Particles >14µm		█ 74	---	---	---
ISO 4406:1999 (c)		23/19/13	---	---	---
Silicon	ppm	█ 9	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ <1	---	---	---



WEAR METALS

Iron	ppm	█ 14	---	---	---
Copper	ppm	█ 35	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 3	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 210	---	---	---
Magnesium	ppm	█ 22	---	---	---
Zinc	ppm	█ 460	---	---	---
Phosphorus	ppm	█ 361	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 2	---	---	---

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 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.

Depot: VOLVO6174
Unique No: 10768143
Signed: Wes Davis
Report Date: 05 Dec 2023

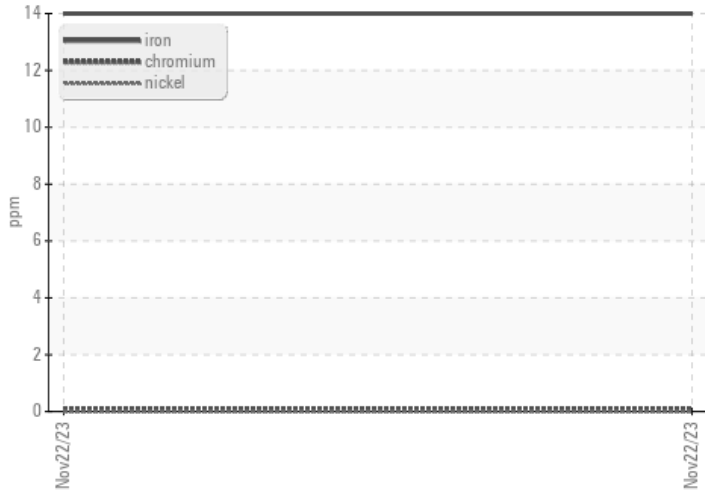


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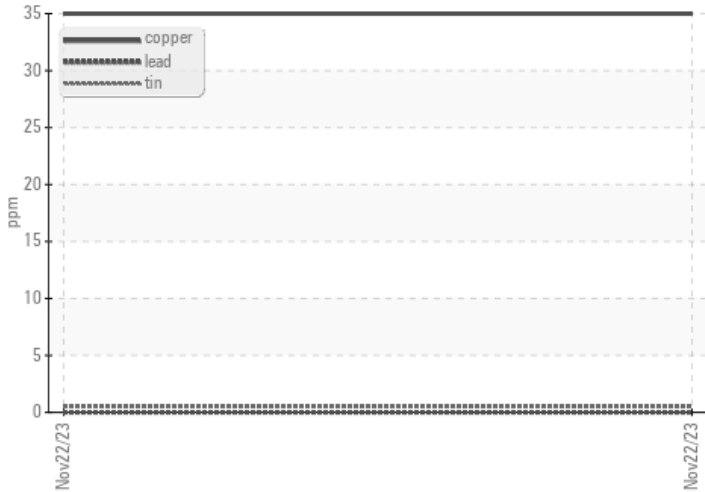


GRAPHS

Ferrous Alloys



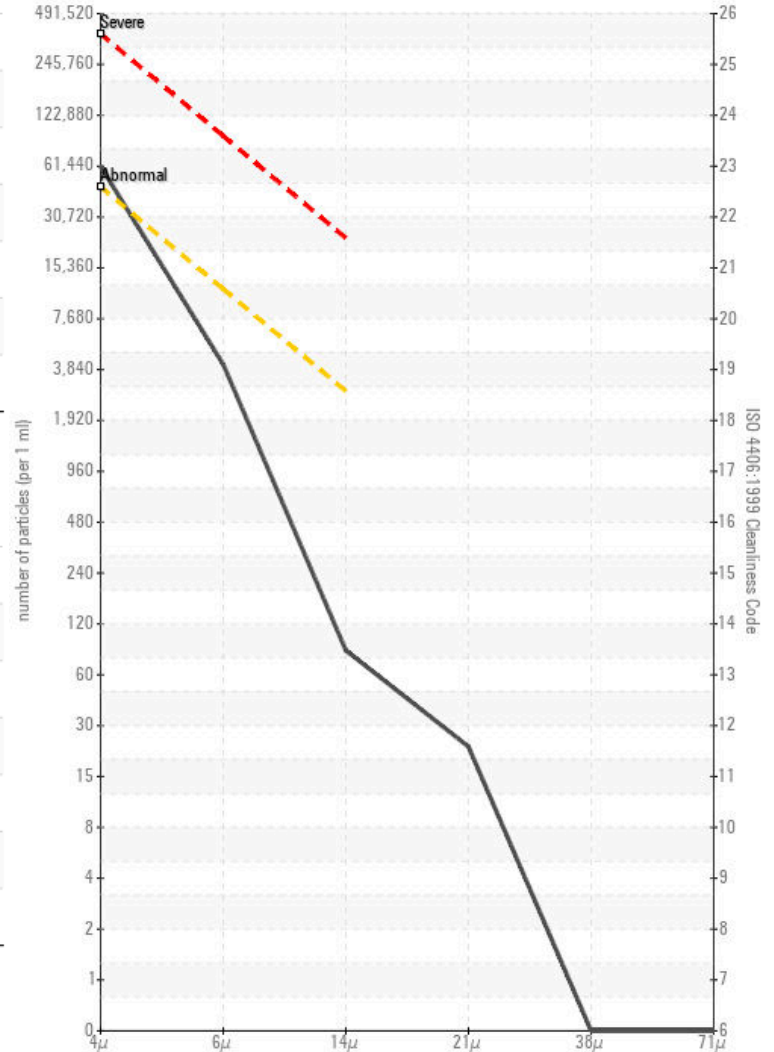
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

