



CONSTRUCTION EQUIPMENT

053667 AM ENVIRO VOLVO EC480EL 315380 - HYDRAULIC SYSTEM



Sample No: VCP433334
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: 053667 AM ENVIRO



SAMPLE INFORMATION

Sample Number	VCP433334	---	---	---
Sample Date	05 Apr 2024	---	---	---
Machine Hours	860	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

TYLER EQUIPMENT CORPORATION MAIN
PO BOX 544
EAST LONGMEADOW, MA
US 01028
Contact: FRED SILLIKER
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T:
F: (413)525-5909

OIL CONDITION

Visc @ 40°C	cSt	█ 41.5	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.53	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 92458	---	---	---
Particles >6µm		▲ 29756	---	---	---
Particles >14µm		▲ 2250	---	---	---
ISO 4406:1999 (c)		24/22/18	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ <1	---	---	---

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

WEAR METALS

Iron	ppm	█ 2	---	---	---
Copper	ppm	█ 17	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 80	---	---	---
Magnesium	ppm	█ <1	---	---	---
Zinc	ppm	█ 480	---	---	---
Phosphorus	ppm	█ 381	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: VOLVO0009
Unique No: 10975878
Signed: Wes Davis
Report Date: 12 Apr 2024

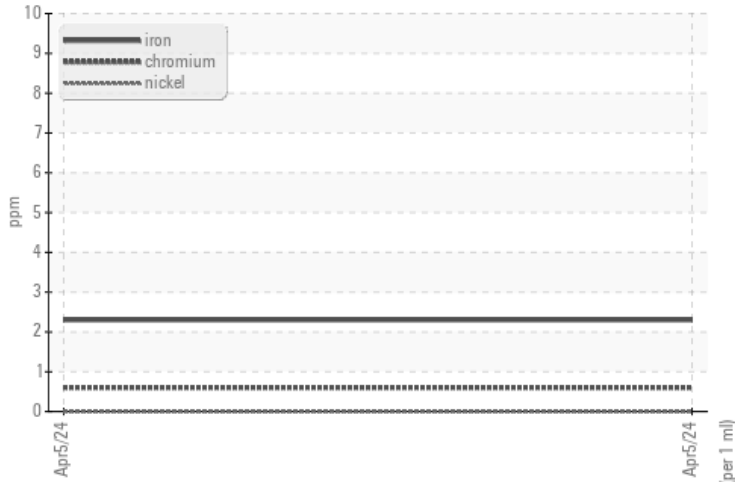


CONSTRUCTION EQUIPMENT

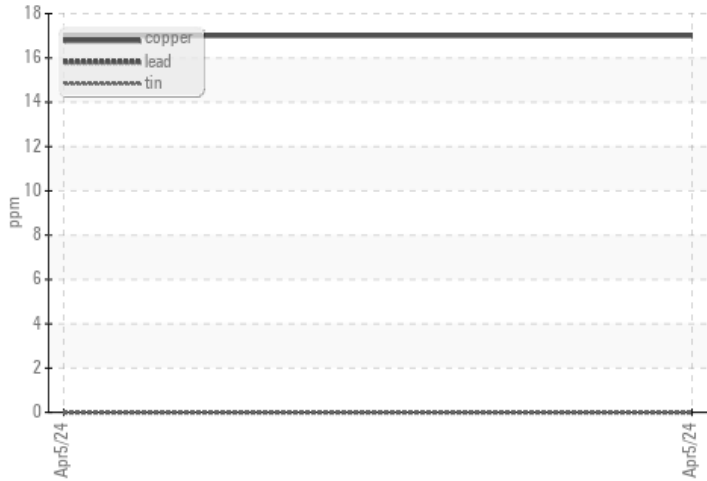


GRAPHS

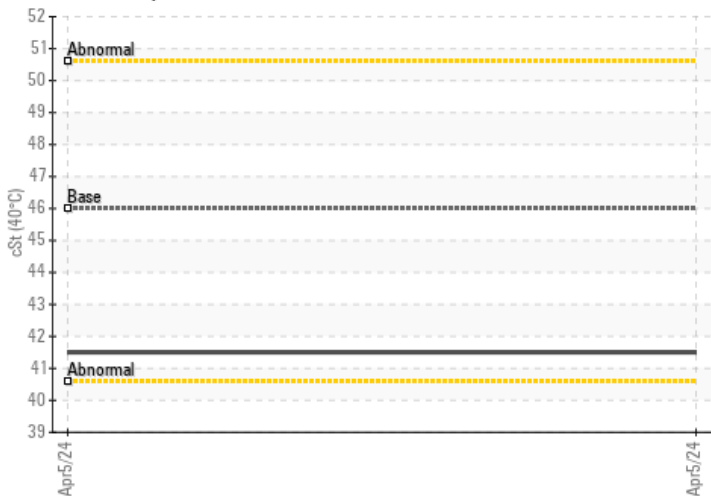
Ferrous Alloys



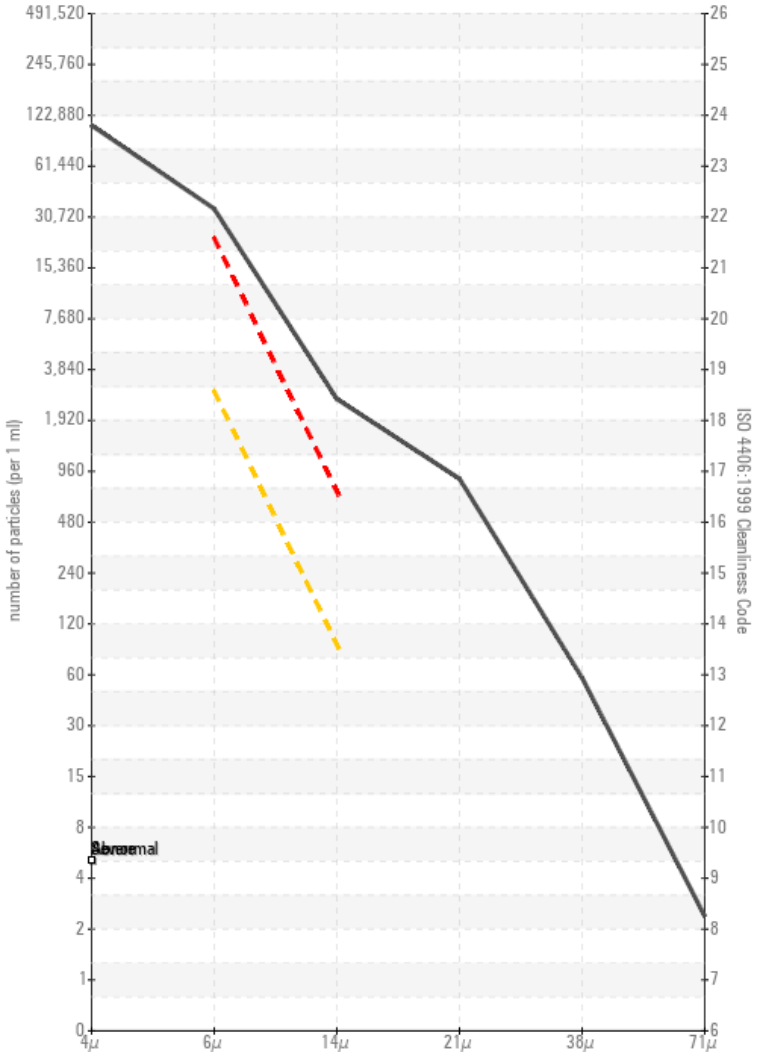
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

