



CONSTRUCTION EQUIPMENT

589608 RENTALS VOLVO EC380EL 315360 - HYDRAULIC SYSTEM



Sample No: VCP449941
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: 589608 RENTALS



SAMPLE INFORMATION

Sample Number	VCP449941	---	---	---
Sample Date	18 Jun 2024	---	---	---
Machine Hours	2346	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 41.2	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.41	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 64290	---	---	---
Particles >6µm		▲ 8419	---	---	---
Particles >14µm		█ 59	---	---	---
ISO 4406:1999 (c)		23/20/13	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 7	---	---	---
Potassium	ppm	█ 3	---	---	---

Diagnosis

Check seals and/or filters for points of contaminant entry. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of silt (particulates < 14 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.



WEAR METALS

Iron	ppm	█ <1	---	---	---
Copper	ppm	█ 33	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 64	---	---	---
Magnesium	ppm	█ <1	---	---	---
Zinc	ppm	█ 483	---	---	---
Phosphorus	ppm	█ 438	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: VOLVO0096
Unique No: 11096286
Signed: Wes Davis
Report Date: 25 Jun 2024

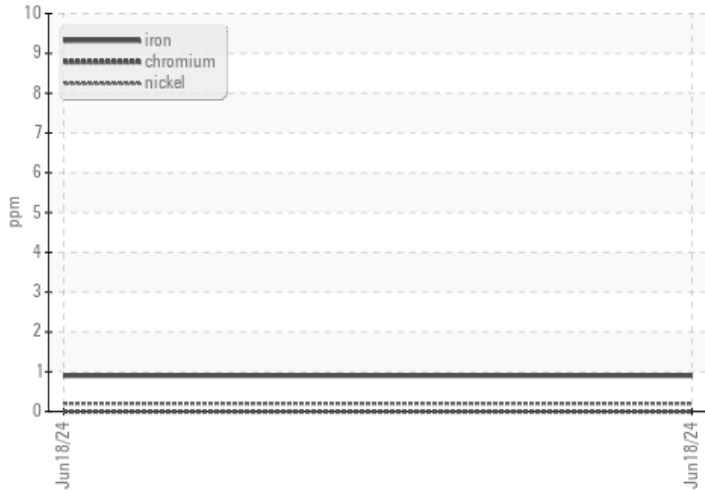


CONSTRUCTION EQUIPMENT

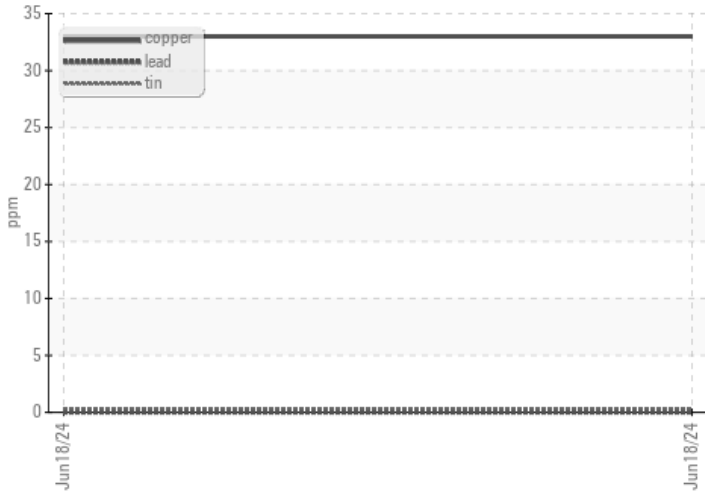


GRAPHS

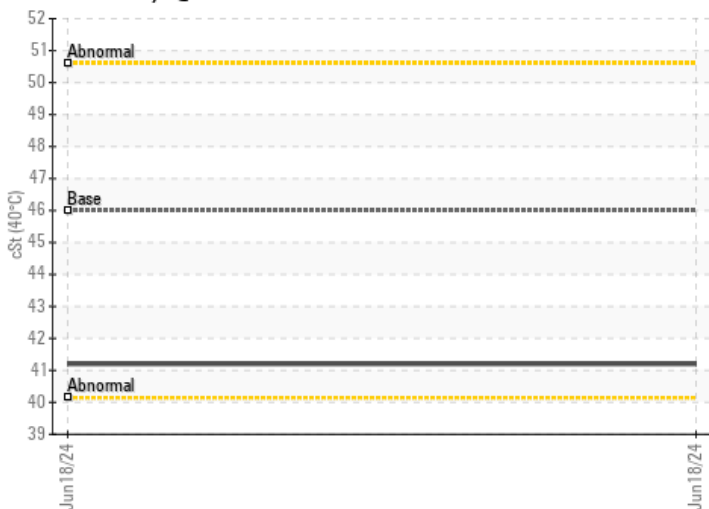
Ferrous Alloys



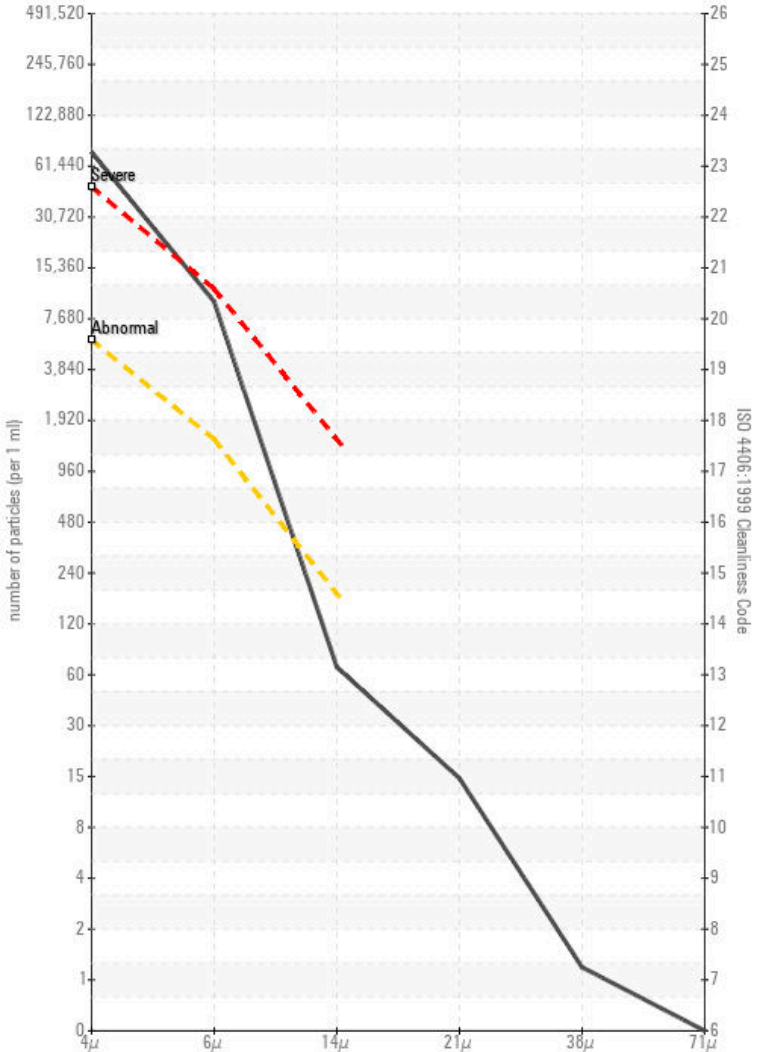
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

