



CONSTRUCTION EQUIPMENT

VOLVO EC480 31142 - HYDRAULIC SYSTEM



Sample No: VCP443761
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP443761	VCP405094	---	---
Sample Date	23 Apr 2024	19 Apr 2023	---	---
Machine Hours	6042	5432	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	48.2	44.3	---	---
Acid Number (AN)	mg KOH/g	0.51	0.38	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		40322	10859	---	---
Particles >6µm		15074	2441	---	---
Particles >14µm		3308	95	---	---
ISO 4406:1999 (c)		23/21/19	21/18/14	---	---
Silicon	ppm	0	5	---	---
Sodium	ppm	<1	1	---	---
Potassium	ppm	0	0	---	---

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.



WEAR METALS

Iron	ppm	2	9	---	---
Copper	ppm	12	57	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	0	3	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	130	69	---	---
Magnesium	ppm	10	5	---	---
Zinc	ppm	473	411	---	---
Phosphorus	ppm	373	357	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Depot: VOLVO0096
Unique No: 10994434
Signed: Wes Davis
Report Date: 25 Apr 2024

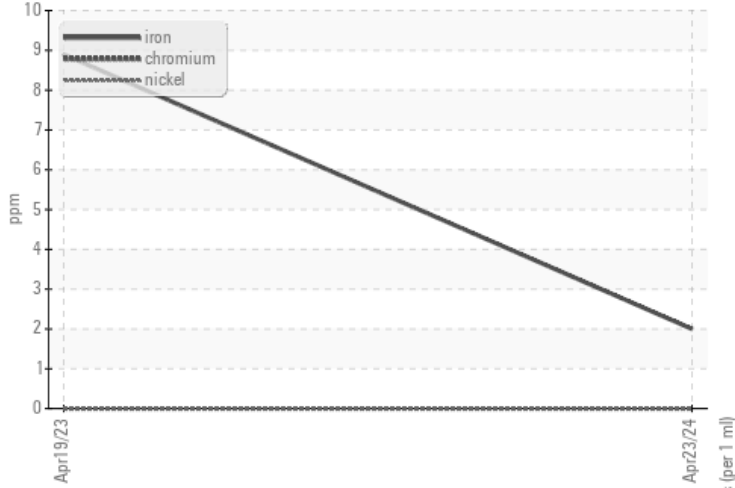


CONSTRUCTION EQUIPMENT

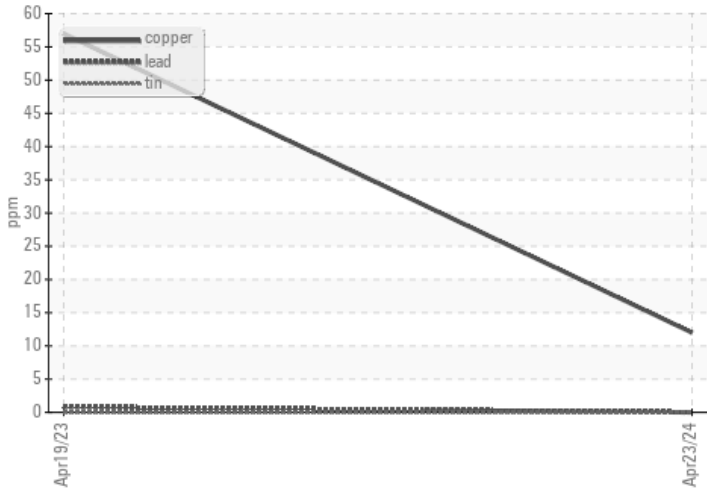


GRAPHS

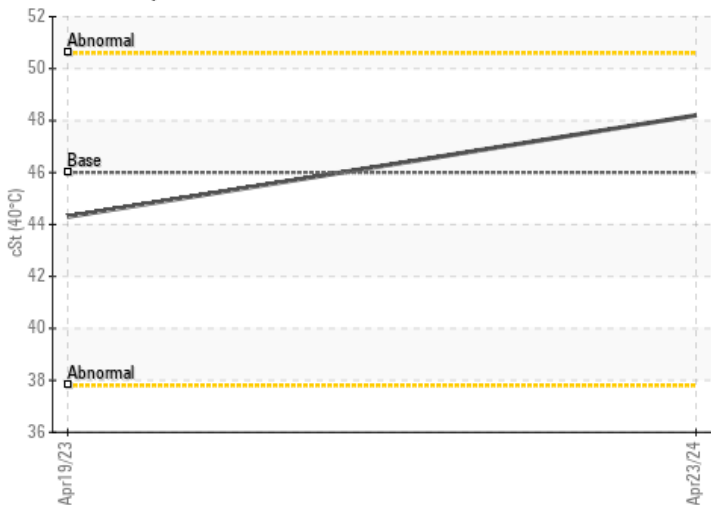
Ferrous Alloys



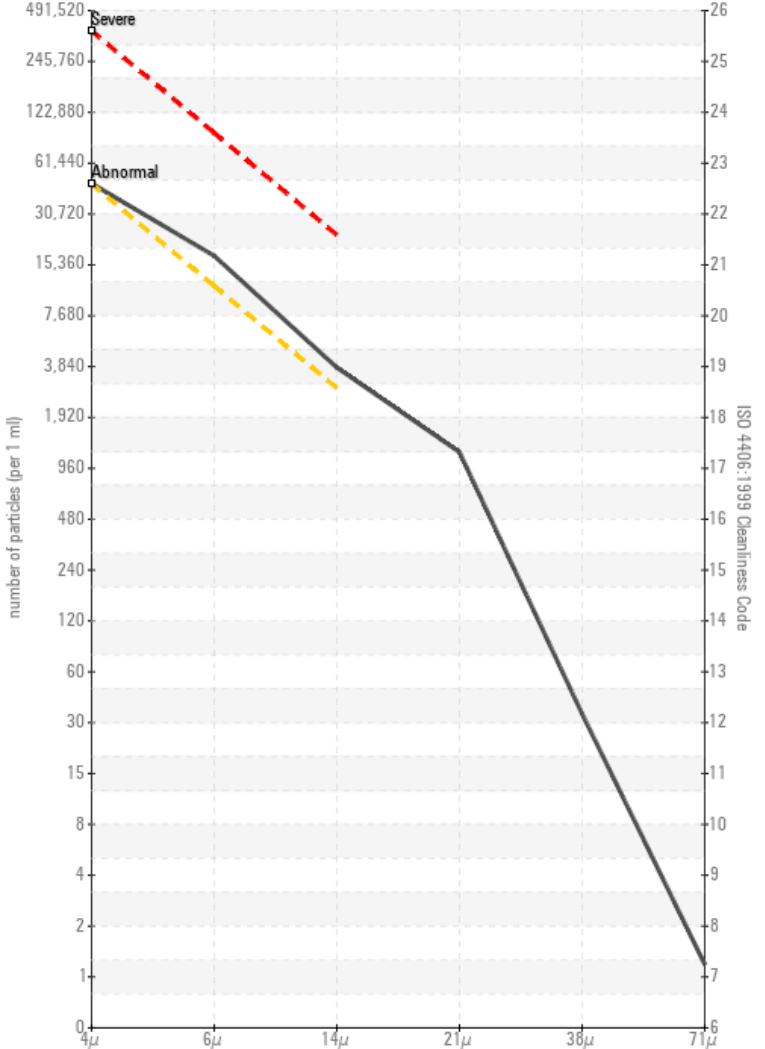
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

