



CONSTRUCTION EQUIPMENT

SW-26674-2 GRANT MAC VOLVO EC480E 3 14608 - HYDRAULIC SYSTEM



Sample No: VCP434550
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SW-26674-2 GRANT MAC



SAMPLE INFORMATION

Sample Number	VCP434550	VCP399513	VCP387866	---
Sample Date	20 Nov 2023	10 Feb 2023	24 Oct 2022	---
Machine Hours	4022	2501	2062	---
Oil Hours	2000	440	2062	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	43.2	43.3	43.6	---
Acid Number (AN)	mg KOH/g	0.59	0.61	0.66	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		4182	897	11347	---
Particles >6µm		120	148	514	---
Particles >14µm		5	10	9	---
ISO 4406:1999 (c)		19/14/10	17/14/10	21/16/10	---
Silicon	ppm	6	5	4	---
Sodium	ppm	<1	0	<1	---
Potassium	ppm	2	1	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	3	4	3	---
Copper	ppm	21	19	18	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	<1	0	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	0	<1	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	126	117	126	---
Magnesium	ppm	2	1	<1	---
Zinc	ppm	631	610	643	---
Phosphorus	ppm	501	468	509	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	0	---

Depot: VOLVO8770
Unique No: 10762503
Signed: Wes Davis
Report Date: 28 Nov 2023

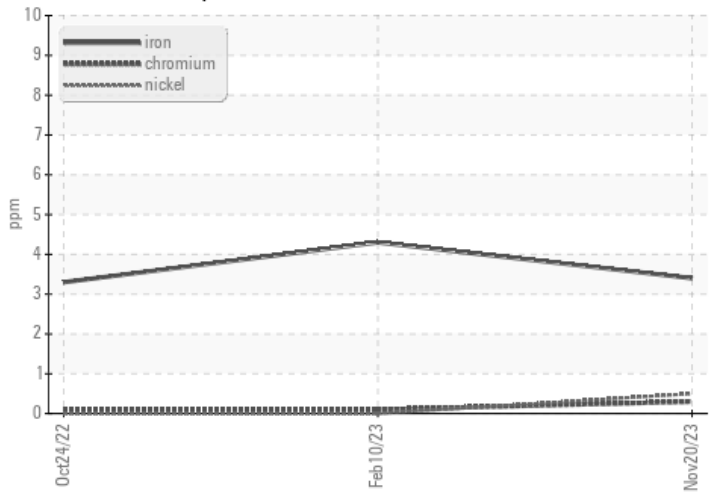


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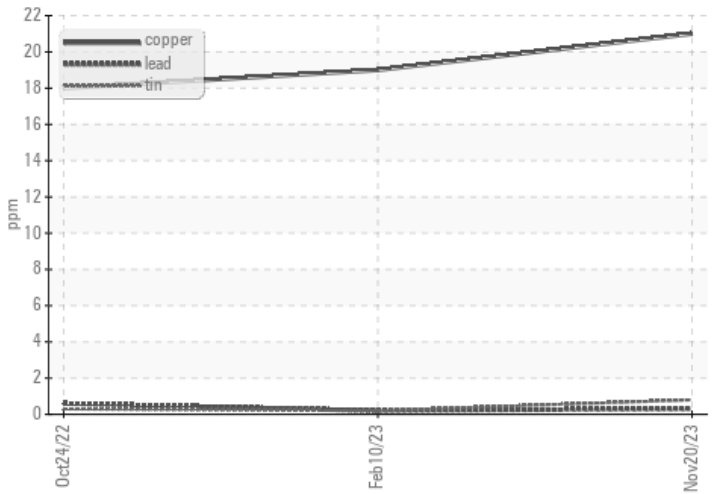


GRAPHS

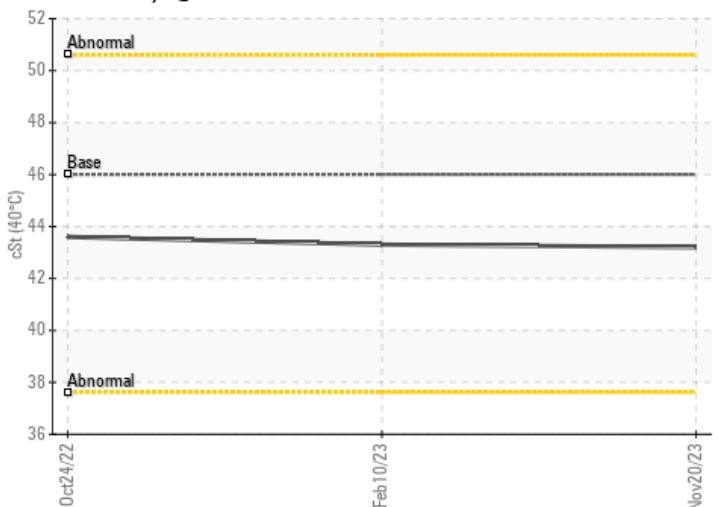
Ferrous Alloys



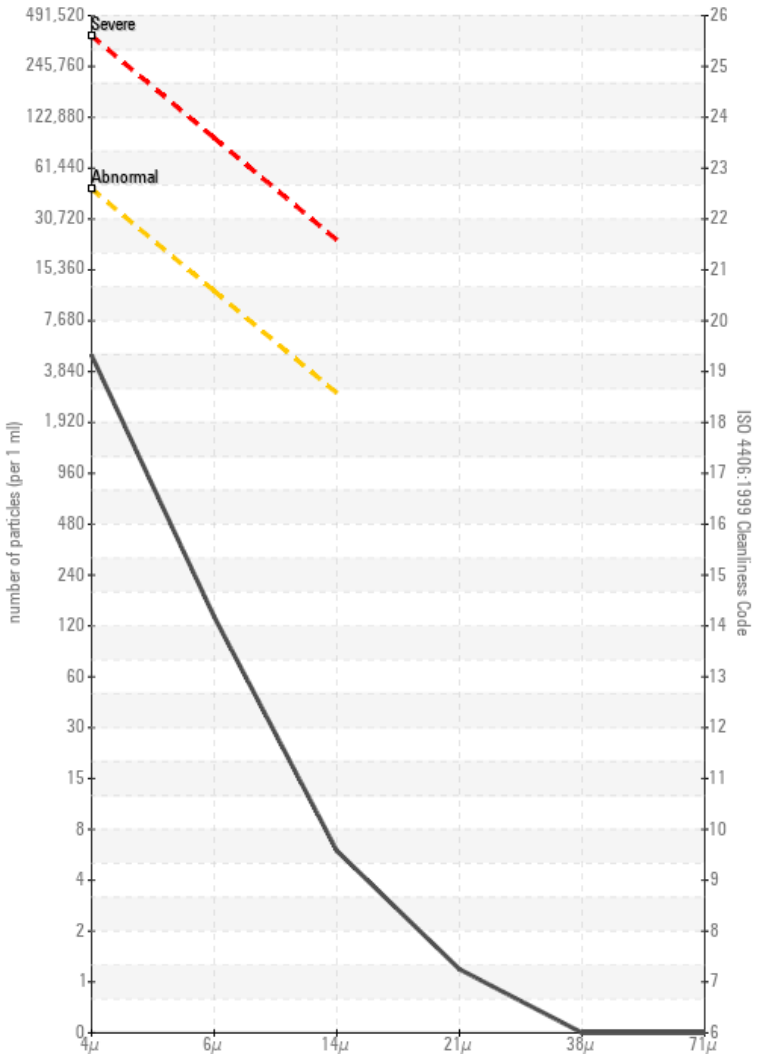
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

