



CONSTRUCTION EQUIPMENT

332993-20 CLEAN EART VOLVO A30G 742136 - HYDRAULIC SYSTEM



Sample No: VCP424031
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 332993-20 CLEAN EART



SAMPLE INFORMATION

Sample Number	VCP424031	VCP363214	VCP321746	---
Sample Date	26 Sep 2023	29 Jul 2022	31 Jan 2022	---
Machine Hours	5090	3492	3001	---
Oil Hours	0	3492	3001	---
Oil Changed	N/A	Not Changd	Not Changd	---
Sample Status	ABNORMAL	ATTENTION	ATTENTION	---

ALTA EQUIPMENT

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 SYRACUSE, NY
 US 13206
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OIL CONDITION

Visc @ 40°C	cSt	46.0	46.9	47.1	---
Acid Number (AN)	mg KOH/g	0.33	0.45	0.40	---



CONTAMINATION

Particles >4µm		31519	14116	30277	---
Particles >6µm		9110	3424	5139	---
Particles >14µm		644	257	313	---
ISO 4406:1999 (c)		22/20/17	21/19/15	22/20/15	---
Silicon	ppm	14	8	8	---
Sodium	ppm	4	<1	3	---
Potassium	ppm	<1	2	<1	---

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 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	22	15	15	---
Copper	ppm	17	13	13	---
Lead	ppm	4	4	3	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	6	4	3	---
Chromium	ppm	2	<1	<1	---
Molybdenum	ppm	<1	0	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	4	4	4	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	153	135	135	---
Magnesium	ppm	10	13	12	---
Zinc	ppm	469	474	473	---
Phosphorus	ppm	395	360	365	---
Barium	ppm	0	0	0	---
Boron	ppm	2	4	11	---

Depot: VOLV00142
Unique No: 10670065
Signed: Wes Davis
Report Date: 29 Sep 2023

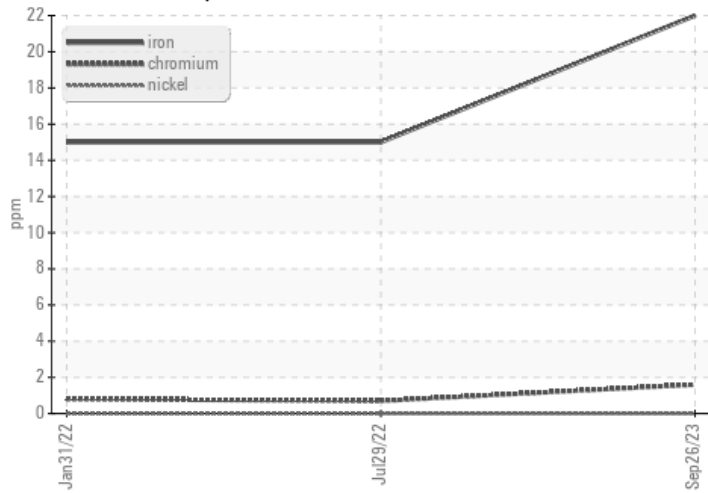


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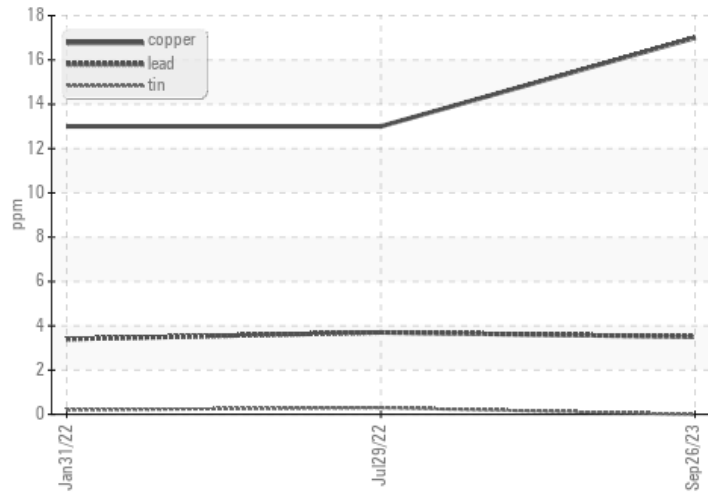


GRAPHS

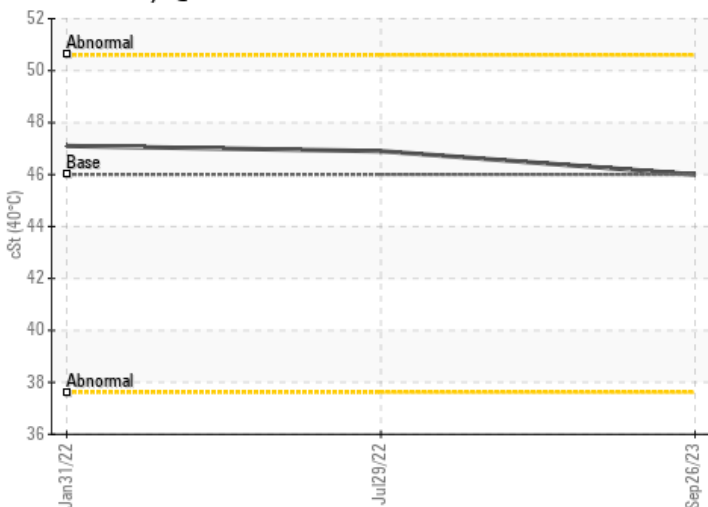
Ferrous Alloys



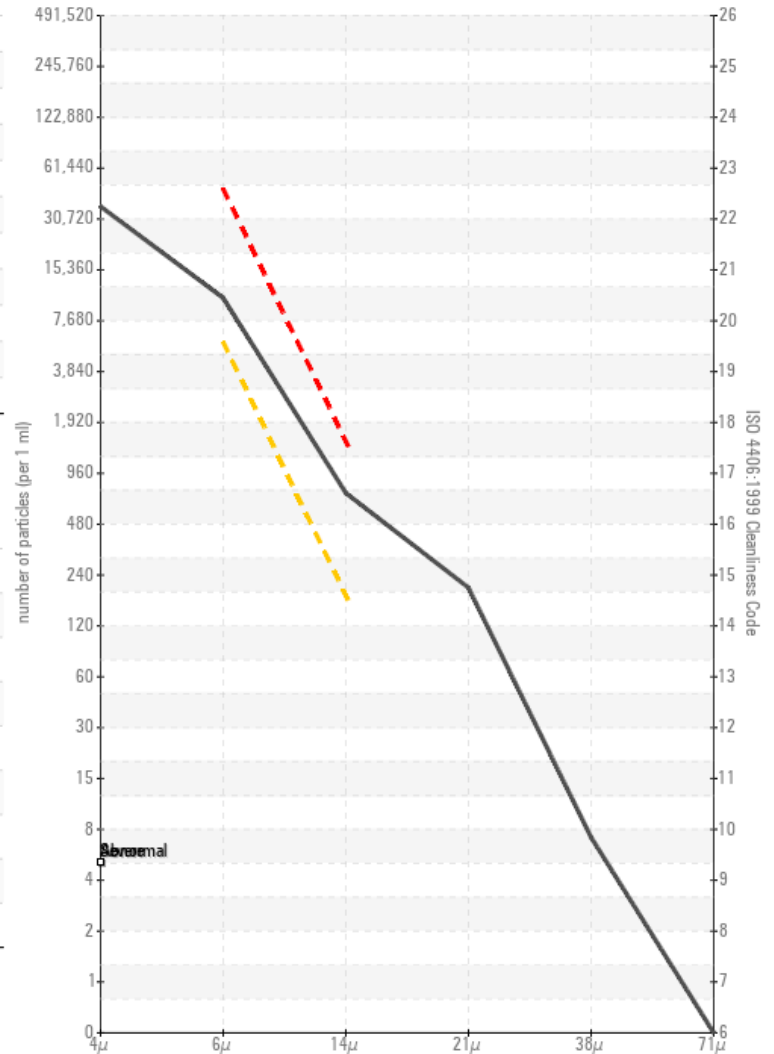
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

