



CONSTRUCTION EQUIPMENT

286697 PASCO EXC VOLVO A30G 742628 - HYDRAULIC SYSTEM



Sample No: VCP412106
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 286697 PASCO EXC



SAMPLE INFORMATION

Sample Number	VCP412106	VCP390699	VCP348317	---
Sample Date	21 Jun 2023	11 Oct 2022	04 Mar 2022	---
Machine Hours	5336	8403	3322	---
Oil Hours	1000	2000	3322	---
Oil Changed	Not Changd	Changed	Not Changd	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	42.2	45.5	45.7	---
Acid Number (AN)	mg KOH/g	0.40	0.37	0.44	---



CONTAMINATION

Particles >4µm		8729	1709	5211	---
Particles >6µm		3485	307	1126	---
Particles >14µm		440	24	55	---
ISO 4406:1999 (c)		20/19/16	18/15/12	20/17/13	---
Silicon	ppm	4	4	3	---
Sodium	ppm	2	<1	0	---
Potassium	ppm	0	<1	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	4	9	7	---
Copper	ppm	4	6	6	---
Lead	ppm	<1	4	3	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	<1	2	1	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	18	<1	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	<1	<1	0	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	106	63	66	---
Magnesium	ppm	13	2	2	---
Zinc	ppm	437	436	445	---
Phosphorus	ppm	359	326	331	---
Barium	ppm	0	2	0	---
Boron	ppm	3	<1	<1	---

Depot: VOLVO0093
Unique No: 10565654
Signed: Wes Davis
Report Date: 24 Jul 2023

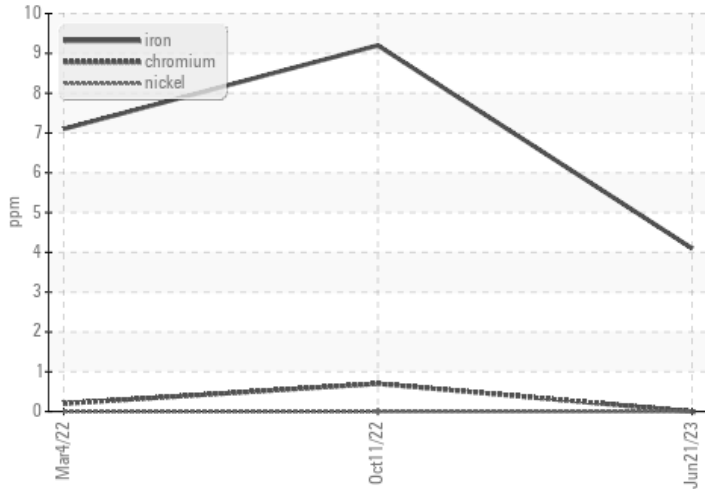


CONSTRUCTION EQUIPMENT

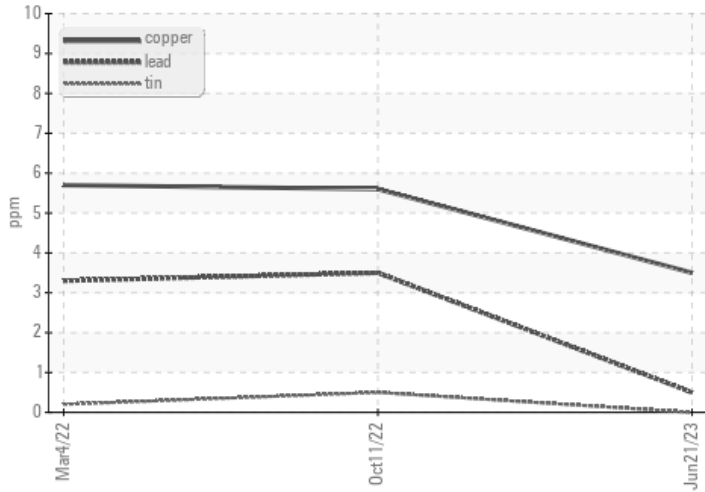


GRAPHS

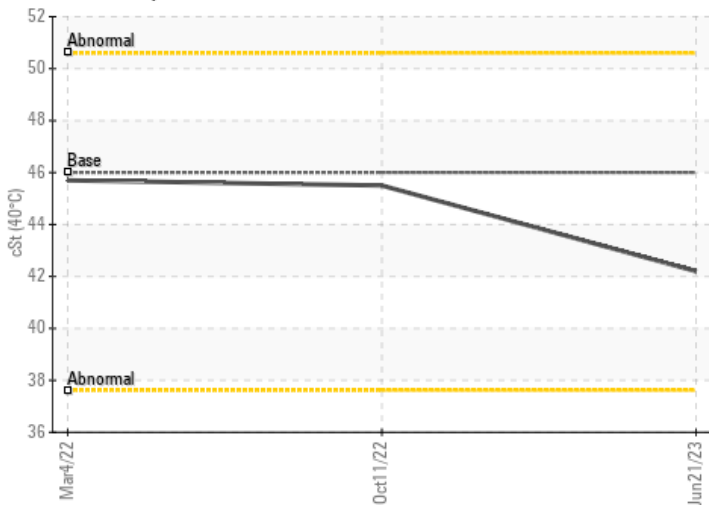
Ferrous Alloys



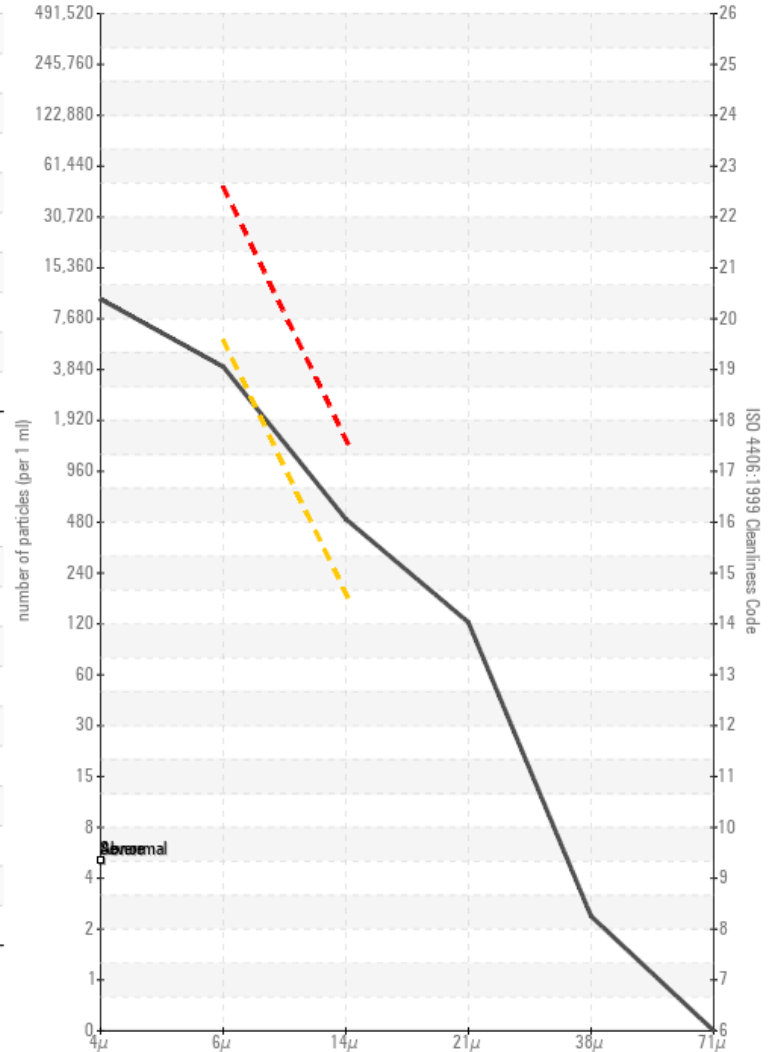
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

