



CONSTRUCTION EQUIPMENT

566430 STONE CO VOLVO L220H 3280 - HYDRAULIC SYSTEM



Sample No: VCP414124
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 566430 STONE CO



SAMPLE INFORMATION

Sample Number	VCP414124	VCP366141	VCP354470	VCP312715
Sample Date	22 Jun 2023	14 Sep 2022	09 May 2022	30 Nov 2021
Machine Hours	6010	3973	2960	1993
Oil Hours	2000	4000	2960	1993
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	SEVERE	ABNORMAL	ABNORMAL	ABNORMAL

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
 Contact: PAUL CONZ
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 T: (313)348-8861
 F: (248)356-2029



OIL CONDITION

Visc @ 40°C	cSt	43.9	40.8	40.8	41.4
Acid Number (AN)	mg KOH/g	0.41	0.37	0.46	0.352



CONTAMINATION

Particles >4µm		18267	46170	39447	32654
Particles >6µm		6864	14340	10781	6124
Particles >14µm		676	1234	503	357
ISO 4406:1999 (c)		21/20/17	23/21/17	22/21/16	22/20/16
Silicon	ppm	<1	1	1	<1
Sodium	ppm	2	3	2	2
Potassium	ppm	0	0	0	<1



WEAR METALS

Iron	ppm	2	5	4	3
Copper	ppm	<1	2	2	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	1	1	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	57	54	53	53
Magnesium	ppm	13	1	<1	<1
Zinc	ppm	475	421	429	429
Phosphorus	ppm	375	338	355	360
Barium	ppm	14	0	0	0
Boron	ppm	0	0	<1	2

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high 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.

Depot: VOLVO2990
Unique No: 10538292
Signed: Wes Davis
Report Date: 03 Jul 2023

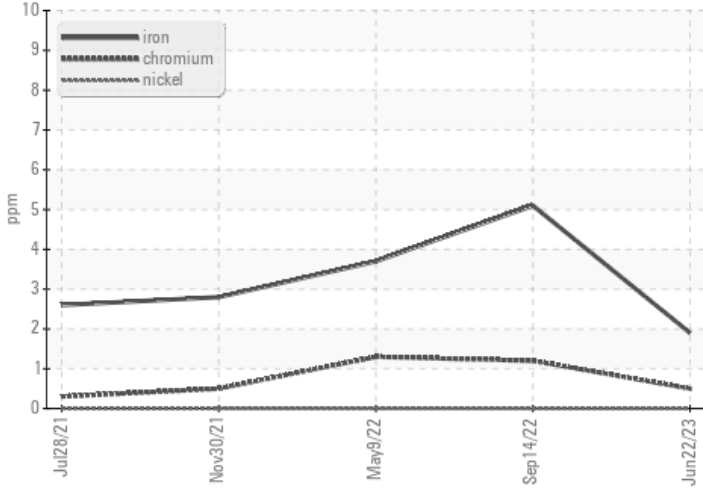


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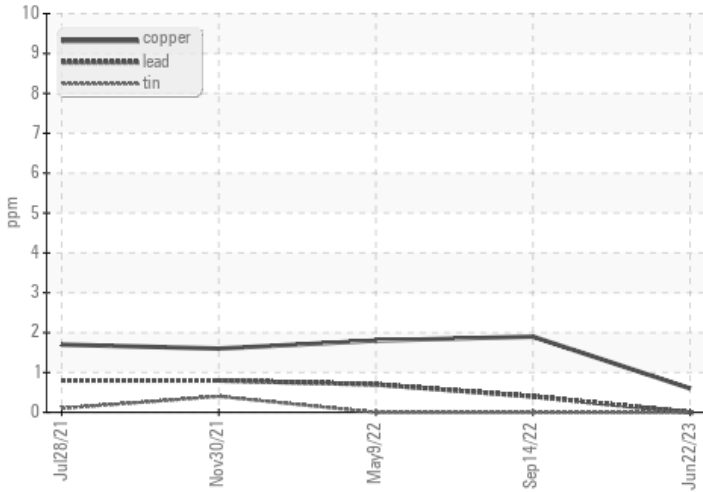


GRAPHS

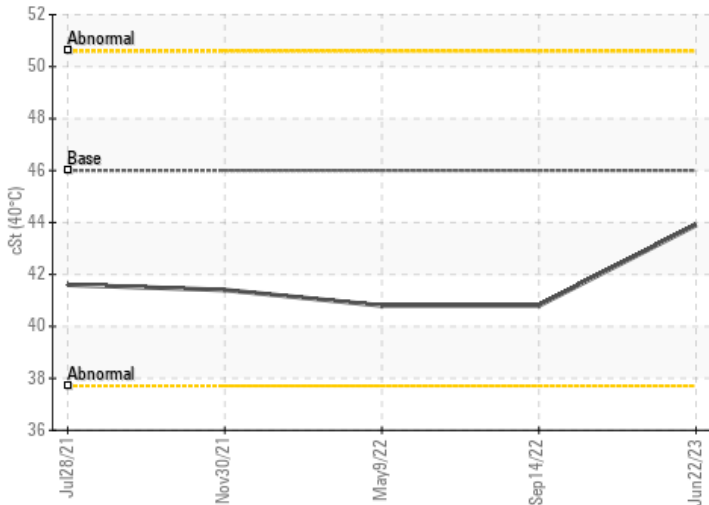
Ferrous Alloys



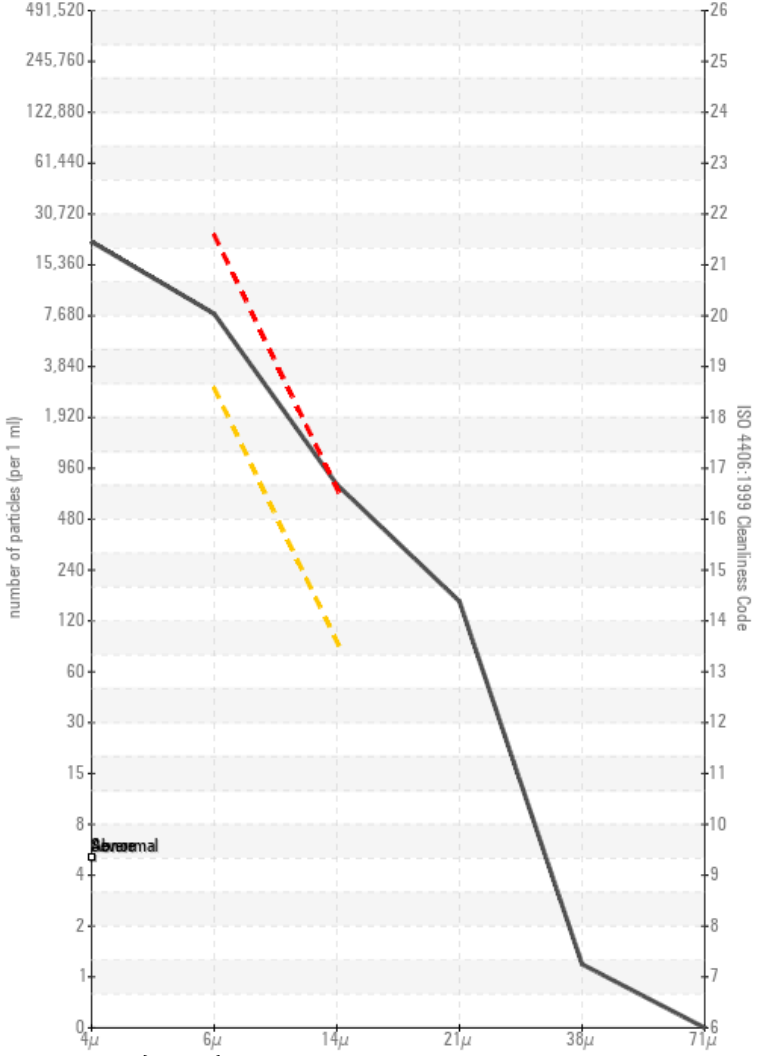
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

