



CONSTRUCTION EQUIPMENT

525703 VOLVO L220H 3 194 - HYDRAULIC SYSTEM



Sample No: VCP428566
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 525703



SAMPLE INFORMATION

Sample Number	VCP428566	VCP405625	VCP396089	VCP361673
Sample Date	05 Apr 2024	17 May 2023	13 Jan 2023	29 Jul 2022
Machine Hours	9203	7696	7191	6398
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	N/A	Not Changd
Sample Status	ABNORMAL	ATTENTION	ABNORMAL	ABNORMAL

CALLANAN
 RT 32 677 FLATBUSH RD
 EAST KINGSTON, NY
 US 12401
 Contact:



OIL CONDITION

Visc @ 40°C	cSt	38.5	38.5	38.7	38.9
Acid Number (AN)	mg KOH/g	0.39	0.34	0.38	0.43

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		18935	48333	10973	81645
Particles >6µm		3477	3771	2563	25488
Particles >14µm		163	71	175	1721
ISO 4406:1999 (c)		21/19/15	23/19/13	21/19/15	24/22/18
Silicon	ppm	10	8	7	7
Sodium	ppm	3	2	2	0
Potassium	ppm	1	1	0	2

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 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	11	8	8	8
Copper	ppm	2	2	3	3
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	4	<1	3	3
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	1	1	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	236	148	151	143
Magnesium	ppm	11	2	11	12
Zinc	ppm	470	457	461	476
Phosphorus	ppm	367	374	365	365
Barium	ppm	0	0	0	0
Boron	ppm	4	1	0	4

Depot: CALEAS
Unique No: 10967797
Signed: Wes Davis
Report Date: 10 Apr 2024

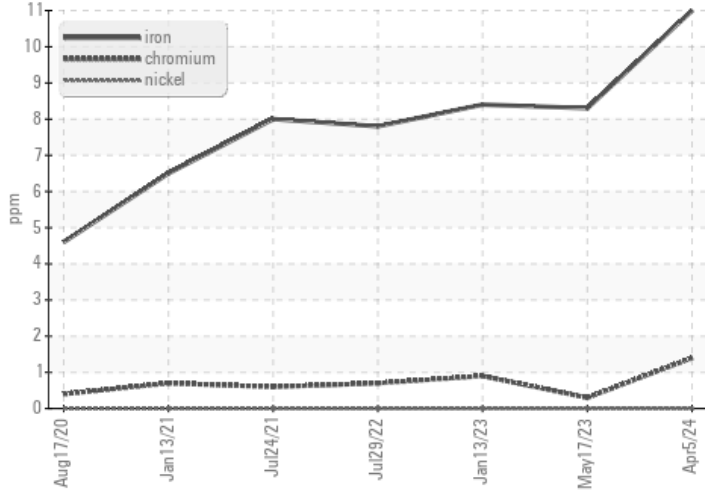


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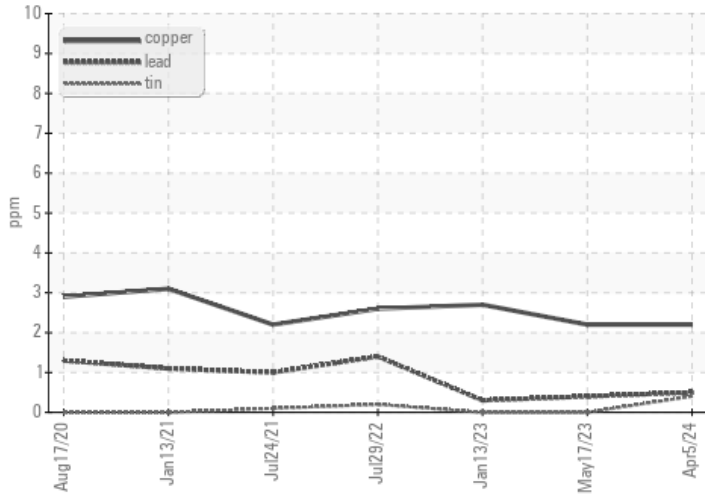


VOLVO GRAPHS

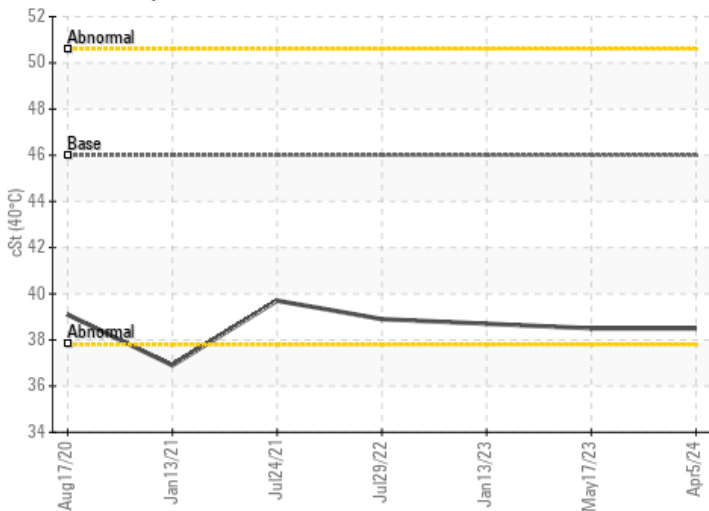
Ferrous Alloys



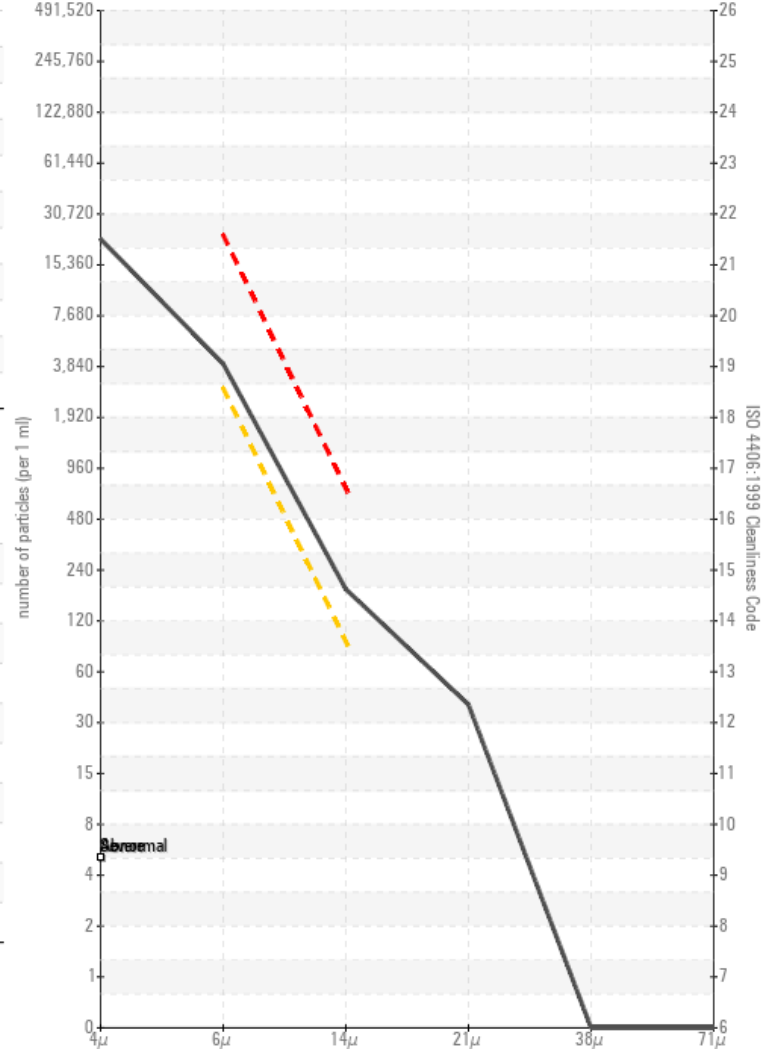
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

