



CONSTRUCTION EQUIPMENT

SWA480260 VOLVO L70H 622505 - HYDRAULIC SYSTEM



Sample No: VCP436335
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA480260



SAMPLE INFORMATION

Sample Number	VCP436335	VCP427425	VCP400815	VCP332131
Sample Date	14 Feb 2024	01 Sep 2023	18 May 2023	12 Sep 2022
Machine Hours	12408	11602	11032	9569
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	Not Changd
Sample Status	SEVERE	SEVERE	ABNORMAL	ABNORMAL

ALTA EQUIPMENT

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OIL CONDITION

Visc @ 40°C	cSt	38.5	38.7	38.7	39.7
Acid Number (AN)	mg KOH/g	0.30	0.26	0.29	0.32



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		41485	124484	30500	35546
Particles >6µm		11083	47913	4624	6740
Particles >14µm		678	2312	147	155
ISO 4406:1999 (c)		23/21/17	24/23/18	22/19/14	22/20/14
Silicon	ppm	12	13	13	13
Sodium	ppm	3	2	3	0
Potassium	ppm	4	<1	2	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.



WEAR METALS

Iron	ppm	6	8	7	7
Copper	ppm	6	6	7	8
Lead	ppm	2	<1	<1	2
Tin	ppm	<1	0	0	<1
Aluminum	ppm	4	2	0	4
Chromium	ppm	3	3	3	3
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	55	65	62	56
Magnesium	ppm	4	5	6	1
Zinc	ppm	408	403	417	430
Phosphorus	ppm	329	330	342	333
Barium	ppm	0	7	0	0
Boron	ppm	0	0	0	0

Depot: VOLV00142
Unique No: 10885839
Signed: Wes Davis
Report Date: 20 Feb 2024

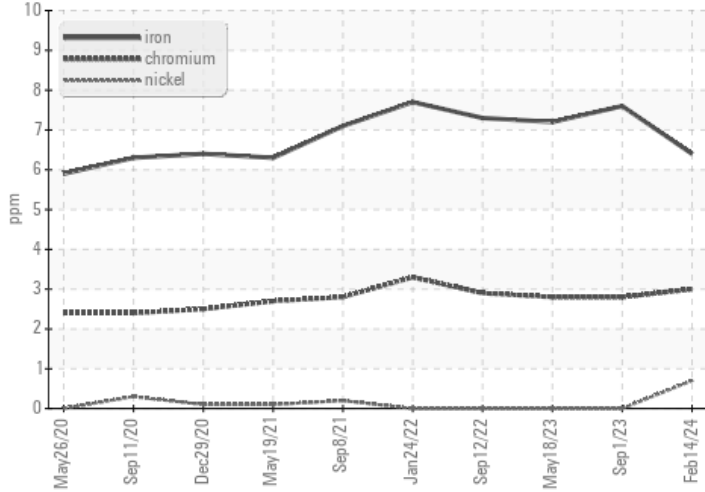


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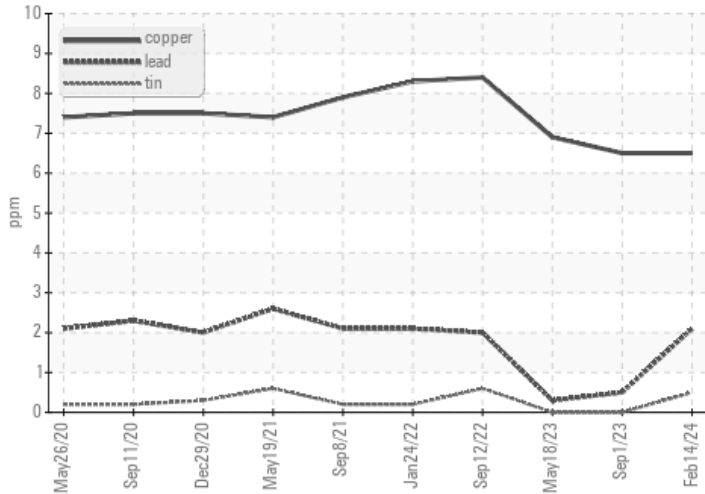


GRAPHS

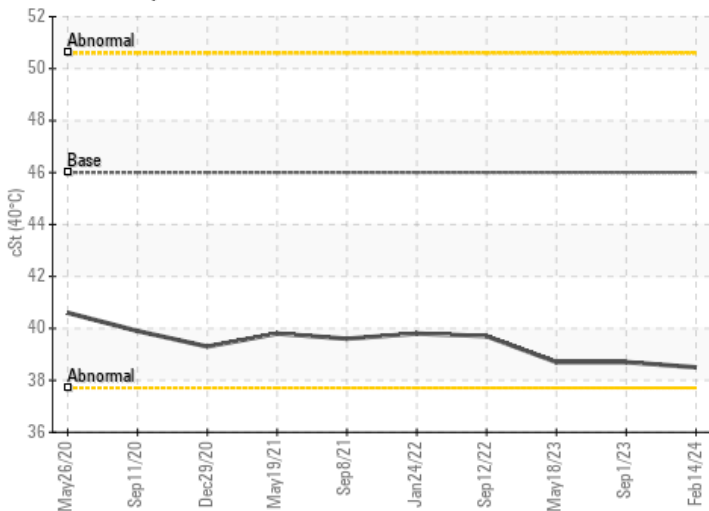
Ferrous Alloys



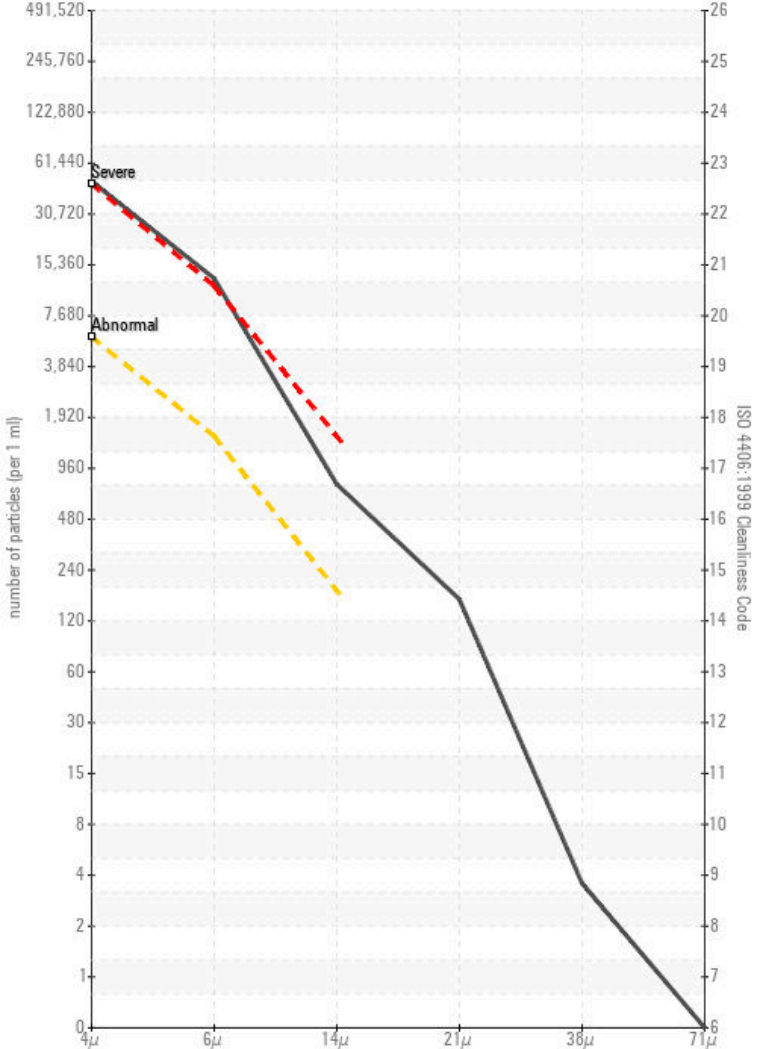
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

