



CONSTRUCTION EQUIPMENT

D13184 WM RECYCLING VOLVO L70H 624717 - HYDRAULIC SYSTEM



Sample No: VCP418670
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: D13184 WM RECYCLING



SAMPLE INFORMATION

Sample Number	VCP418670	VCP193617	VCP429532	VCP418993
Sample Date	13 Jan 2024	11 Dec 2023	19 Oct 2023	08 Sep 2023
Machine Hours	3819	3591	3224	2966
Oil Hours	396	625	258	2966
Oil Changed	N/A	Not Changd	Not Changd	Changed
Sample Status	ABNORMAL	SEVERE	ABNORMAL	NORMAL

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 BUTLER, WI
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OIL CONDITION

Visc @ 40°C	cSt	42.5	42.9	43.4	41.8
Acid Number (AN)	mg KOH/g	0.32	0.33	0.42	0.40



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		19535	132917	11663	1577
Particles >6µm		6380	40714	3526	449
Particles >14µm		625	3205	266	45
ISO 4406:1999 (c)		21/20/16	24/23/19	21/19/15	18/16/13
Silicon	ppm	2	3	1	4
Sodium	ppm	1	2	0	2
Potassium	ppm	0	2	1	0

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



ADDITIVES

Calcium	ppm	78	84	81	96
Magnesium	ppm	9	10	9	2
Zinc	ppm	444	467	454	459
Phosphorus	ppm	273	352	341	372
Barium	ppm	0	0	9	0
Boron	ppm	0	0	0	0

Depot: VOLVO0069
Unique No: 10843447
Signed: Wes Davis
Report Date: 23 Jan 2024

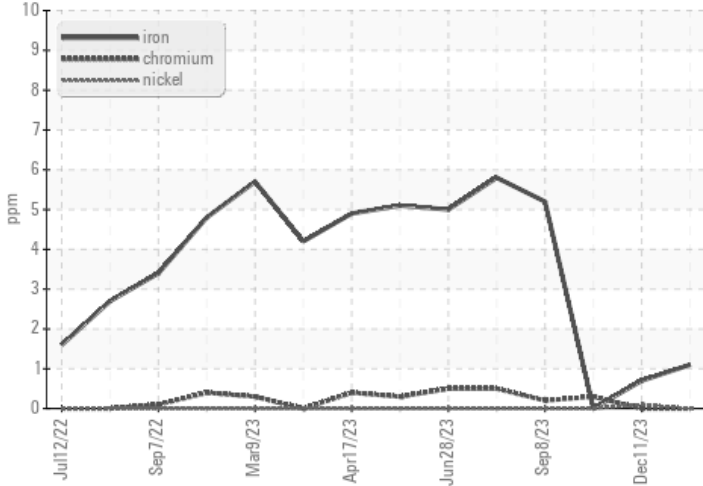


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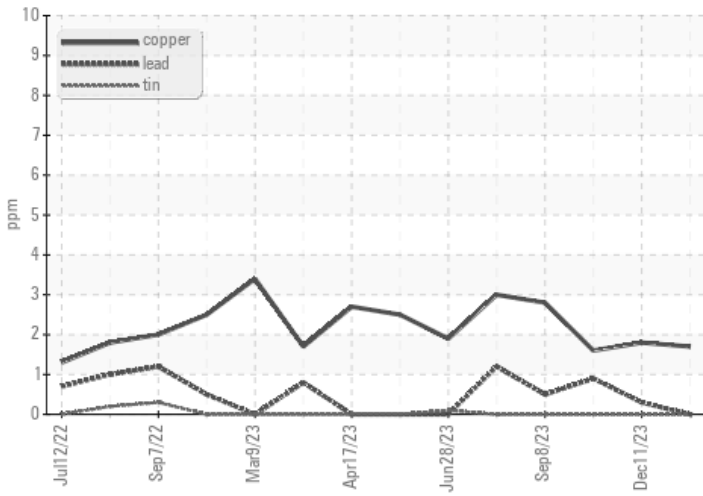


GRAPHS

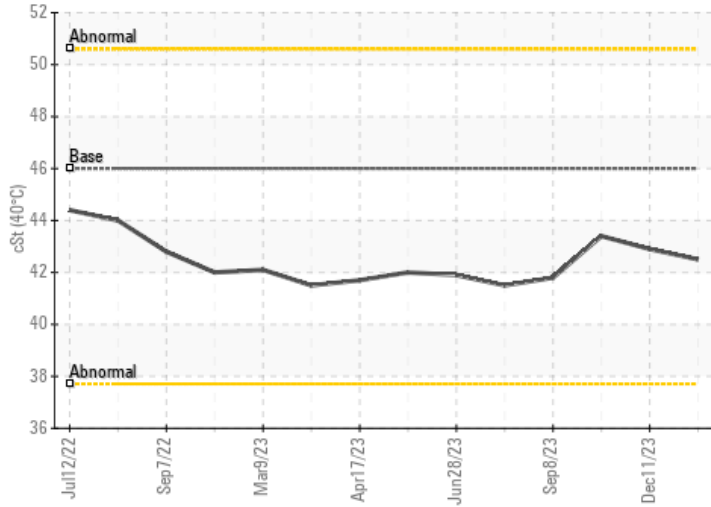
Ferrous Alloys



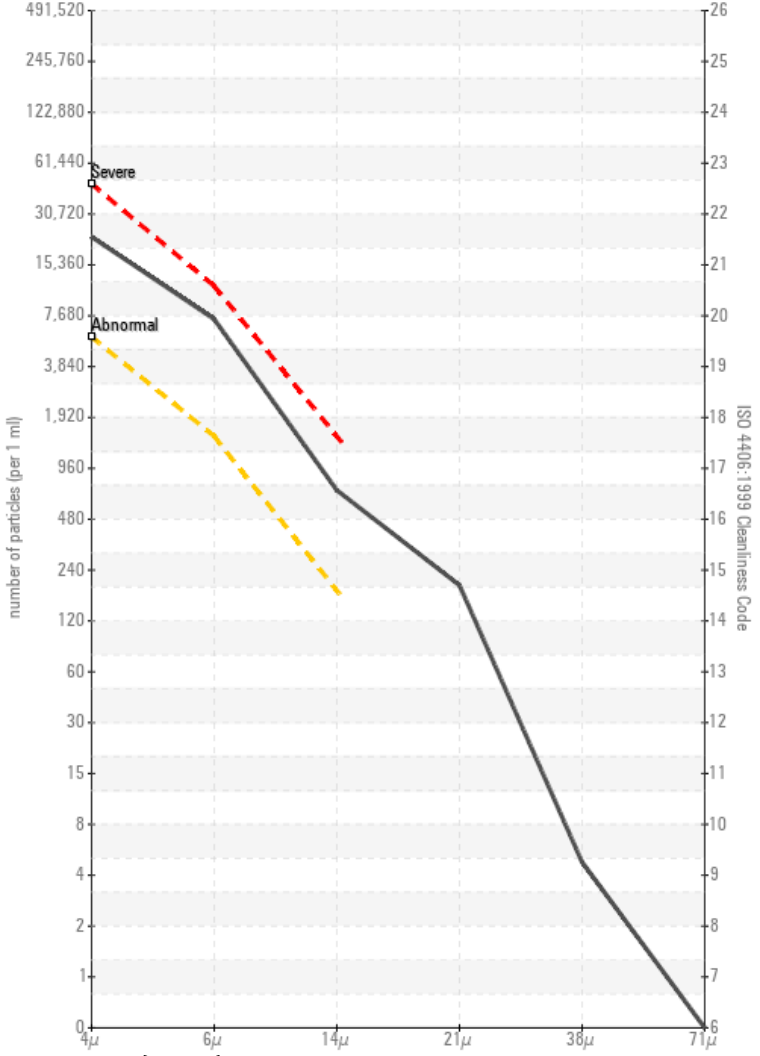
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

