



CONSTRUCTION EQUIPMENT

SWA390774 WM HODGKIN CATERPILLAR 972H A7D00854 - HYDRAULIC SYSTEM



Sample No: VCP395534
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA390774 WM HODGKIN



SAMPLE INFORMATION

Sample Number	VCP395534	VCP404841	VCP369259	VCP387547
Sample Date	18 Oct 2023	10 Apr 2023	16 Feb 2023	31 Aug 2022
Machine Hours	25364	25228	24573	23796
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	ATTENTION	ABNORMAL	ATTENTION

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5000 INDUSTRIAL HWY
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OIL CONDITION

Visc @ 40°C	cSt	47.4	43.2	48.1	49.1
Acid Number (AN)	mg KOH/g	0.79	0.28	0.69	1.02

CONTAMINATION

Particles >4µm	2927	7540	10468	7340	
Particles >6µm	131	1310	2570	403	
Particles >14µm	10	51	144	23	
ISO 4406:1999 (c)	19/14/10	20/18/13	21/19/14	20/16/12	
Silicon	ppm	2	4	2	2
Sodium	ppm	3	1	1	0
Potassium	ppm	2	0	0	2

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	12	6	9	11
Copper	ppm	3	2	1	2
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	2	<1	2
Chromium	ppm	2	0	<1	1
Molybdenum	ppm	6	0	7	11
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	330	149	337	438
Magnesium	ppm	184	4	174	227
Zinc	ppm	806	416	742	935
Phosphorus	ppm	654	351	567	749
Barium	ppm	0	0	0	0
Boron	ppm	6	2	10	14

Depot: VOLVO8885
Unique No: 10737952
Signed: Wes Davis
Report Date: 13 Nov 2023

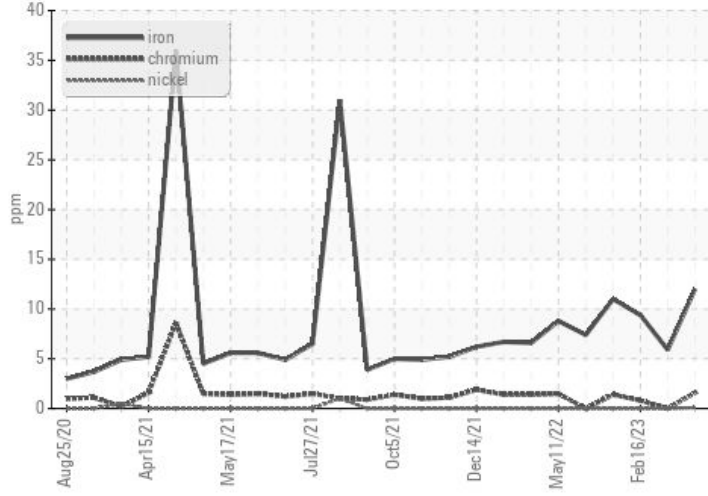


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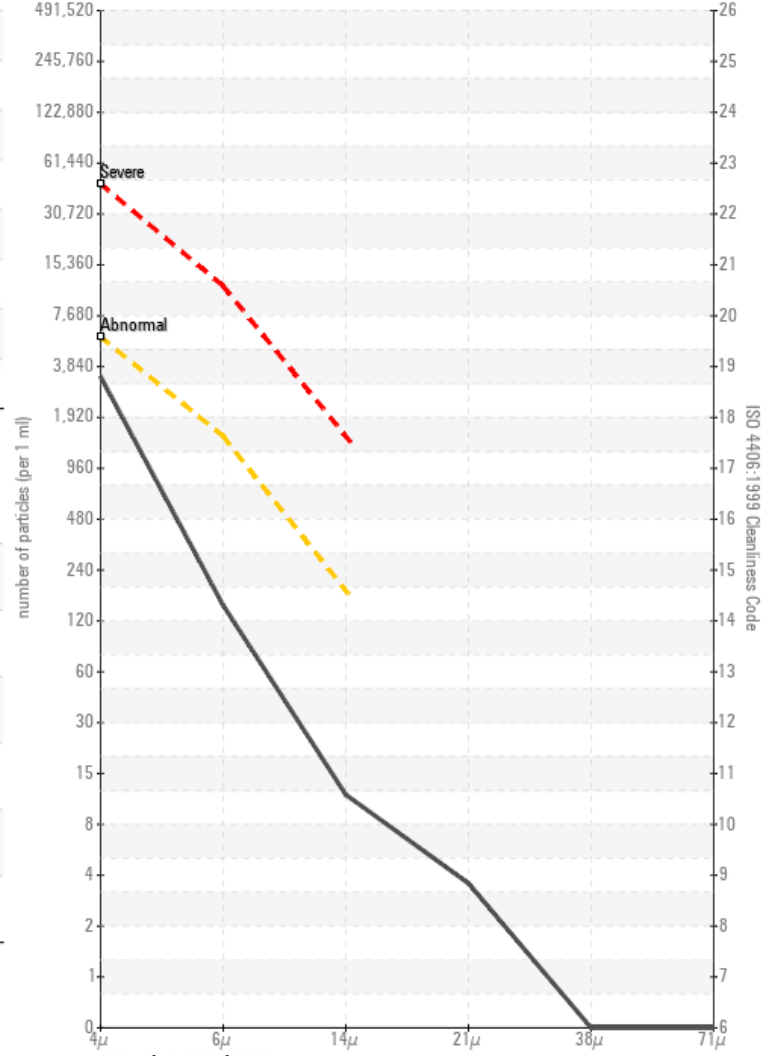


VOLVO GRAPHS

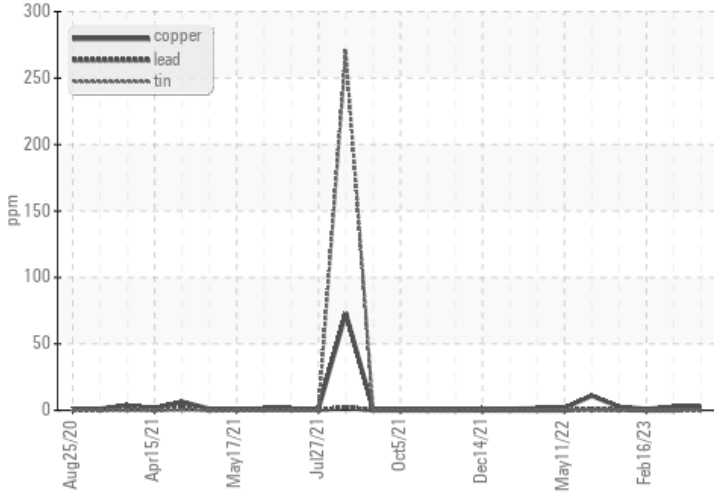
Ferrous Alloys



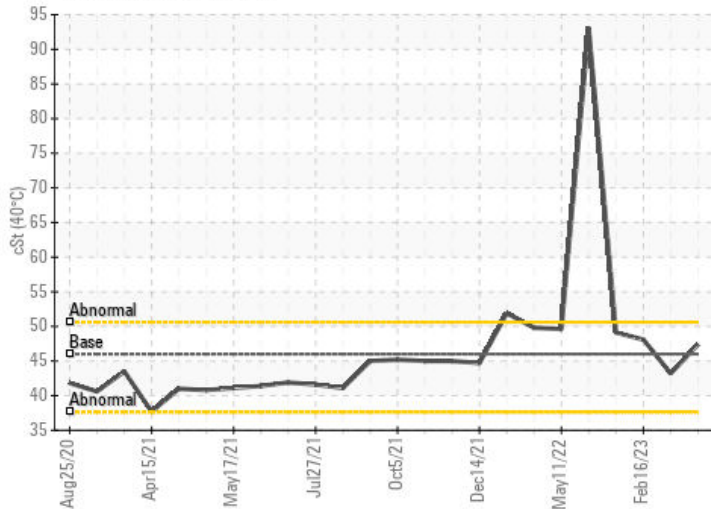
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

