



CONSTRUCTION EQUIPMENT

624438 WM VOLVO L90H 624438 - HYDRAULIC SYSTEM



Sample No: VCP431533
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 624438 WM



SAMPLE INFORMATION

Sample Number	VCP431533	VCP432308	VCP432733	VCP417660
Sample Date	15 Dec 2023	27 Oct 2023	01 Sep 2023	10 Jul 2023
Machine Hours	12918	12363	11842	11301
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.3	43.4	42.3	42.0
Acid Number (AN)	mg KOH/g	0.39	0.39	0.43	0.45



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2564	732	399	1185
Particles >6µm		446	207	87	301
Particles >14µm		29	24	8	26
ISO 4406:1999 (c)		19/16/12	17/15/12	16/14/10	17/15/12
Silicon	ppm	2	2	6	6
Sodium	ppm	<1	0	11	7
Potassium	ppm	<1	2	<1	1

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



ADDITIVES

Calcium	ppm	173	212	154	86
Magnesium	ppm	8	10	8	15
Zinc	ppm	470	484	471	443
Phosphorus	ppm	397	364	368	327
Barium	ppm	6	0	0	0
Boron	ppm	2	4	<1	0

Depot: VOLVO0096
Unique No: 10795799
Signed: Wes Davis
Report Date: 21 Dec 2023

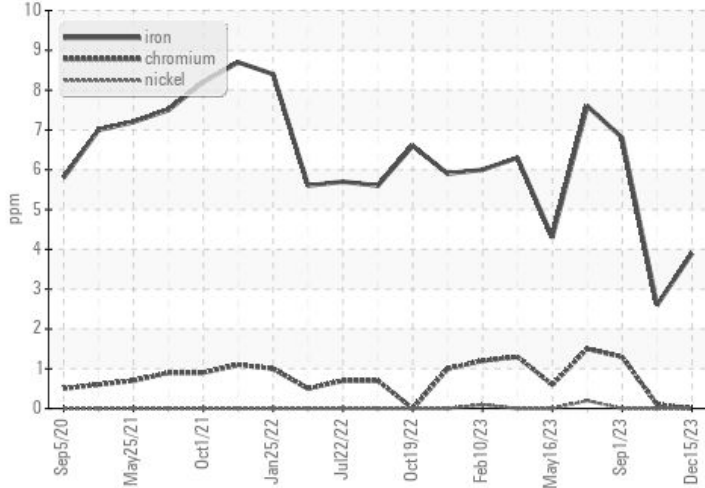


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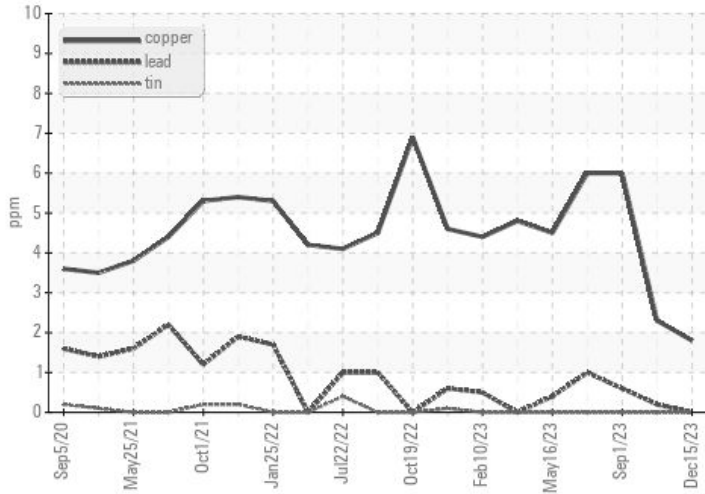


GRAPHS

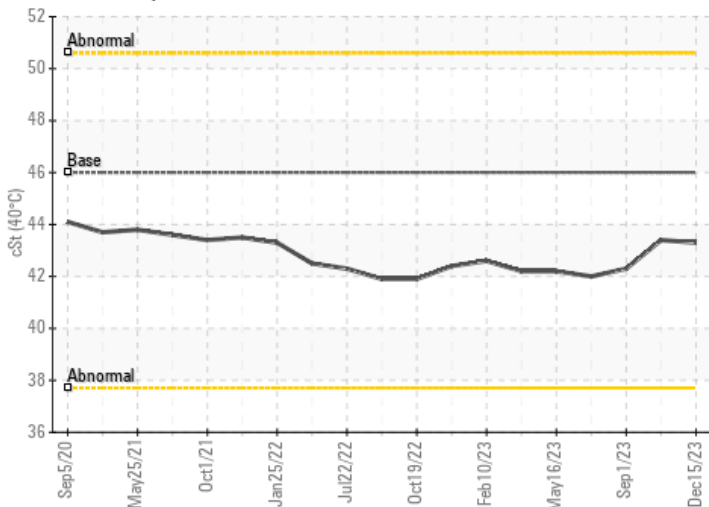
Ferrous Alloys



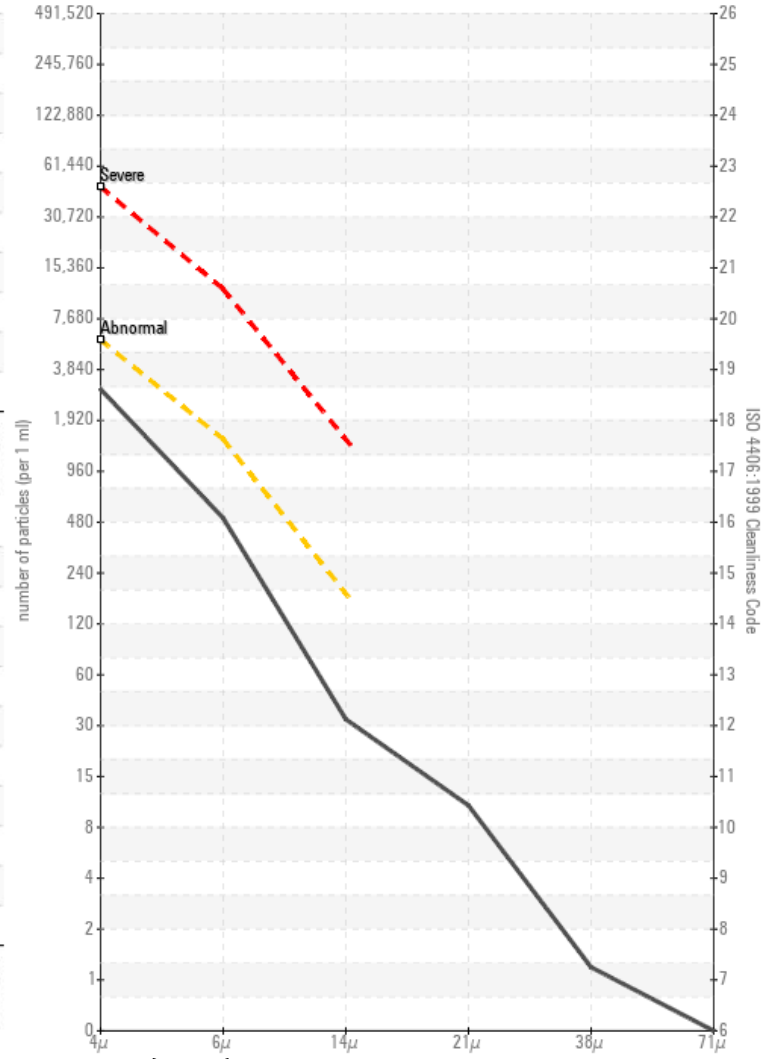
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

