



CONSTRUCTION EQUIPMENT

VOLVO L70H 622733 - HYDRAULIC SYSTEM



Sample No: VCP0007916

Oil Type: AW HYDRAULIC OIL ISO 46

Job No:



SAMPLE INFORMATION

Sample Number	VCP0007916	VCP0008106	VCP360910	VCP305842
Sample Date	11 Dec 2023	08 Nov 2023	07 May 2022	07 May 2021
Machine Hours	4911	4911	4100	2984
Oil Hours	4100	4911	4100	2984
Oil Changed	N/A	N/A	Changed	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	52.1	44.2	43.2	44.9
Acid Number (AN)	mg KOH/g	0.57	0.32	0.32	0.432



CONTAMINATION

Water	%	NEG	0.194	NEG	NEG
Particles >4µm		3708	---	10301	---
Particles >6µm		779	---	265	---
Particles >14µm		49	---	27	---
ISO 4406:1999 (c)		19/17/13	---	21/15/12	---
Silicon	ppm	2	3	2	4
Sodium	ppm	0	4	1	2
Potassium	ppm	0	27	17	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	0	<1	1	8
Copper	ppm	0	4	4	18
Lead	ppm	0	5	5	2
Tin	ppm	0	0	0	<1
Aluminum	ppm	0	0	0	2
Chromium	ppm	0	1	1	<1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	0	0	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	383	120	73	317
Magnesium	ppm	0	<1	0	12
Zinc	ppm	519	424	430	498
Phosphorus	ppm	428	350	356	386
Barium	ppm	0	0	0	0
Boron	ppm	0	2	0	10

Depot: VOLVO0092
Unique No: 10783209
Signed: Don Baldrige
Report Date: 17 Dec 2023

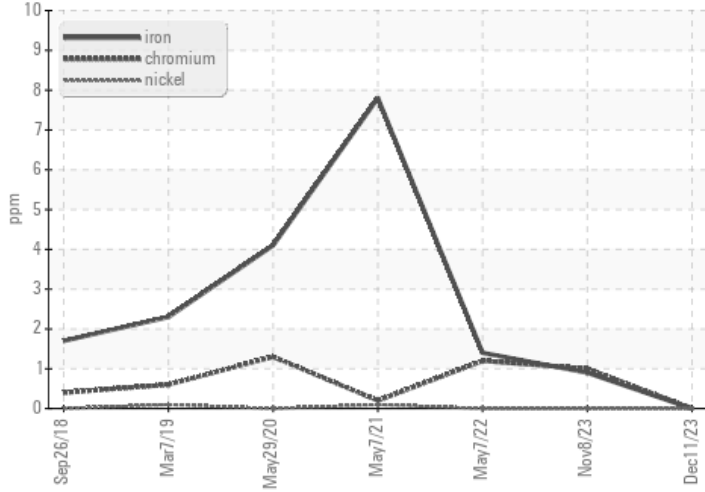


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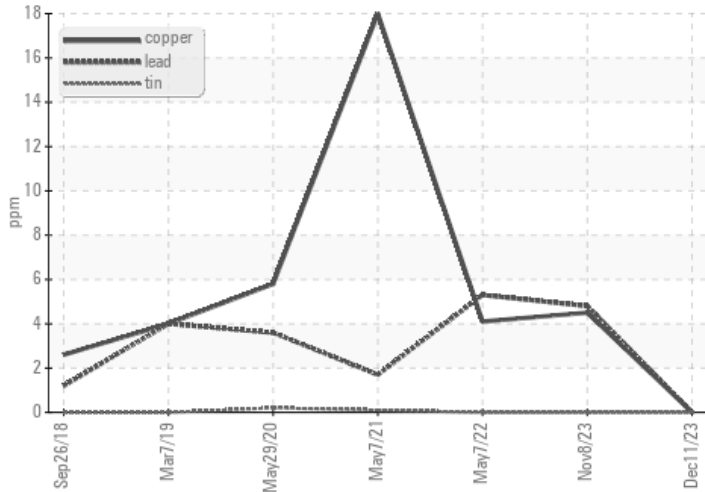


GRAPHS

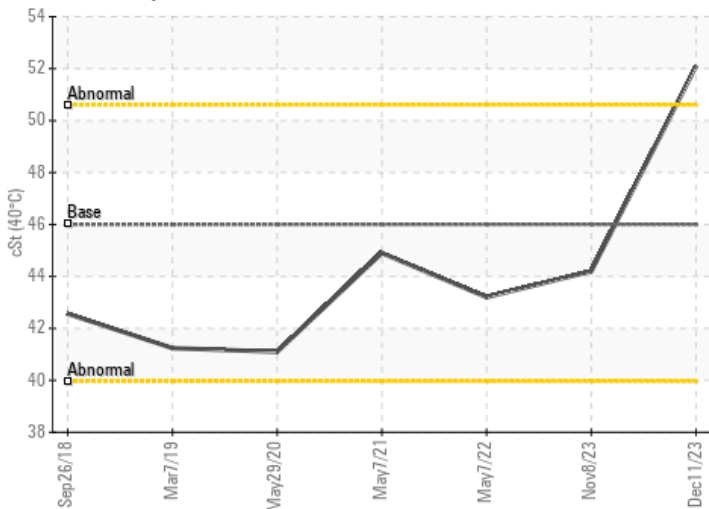
Ferrous Alloys



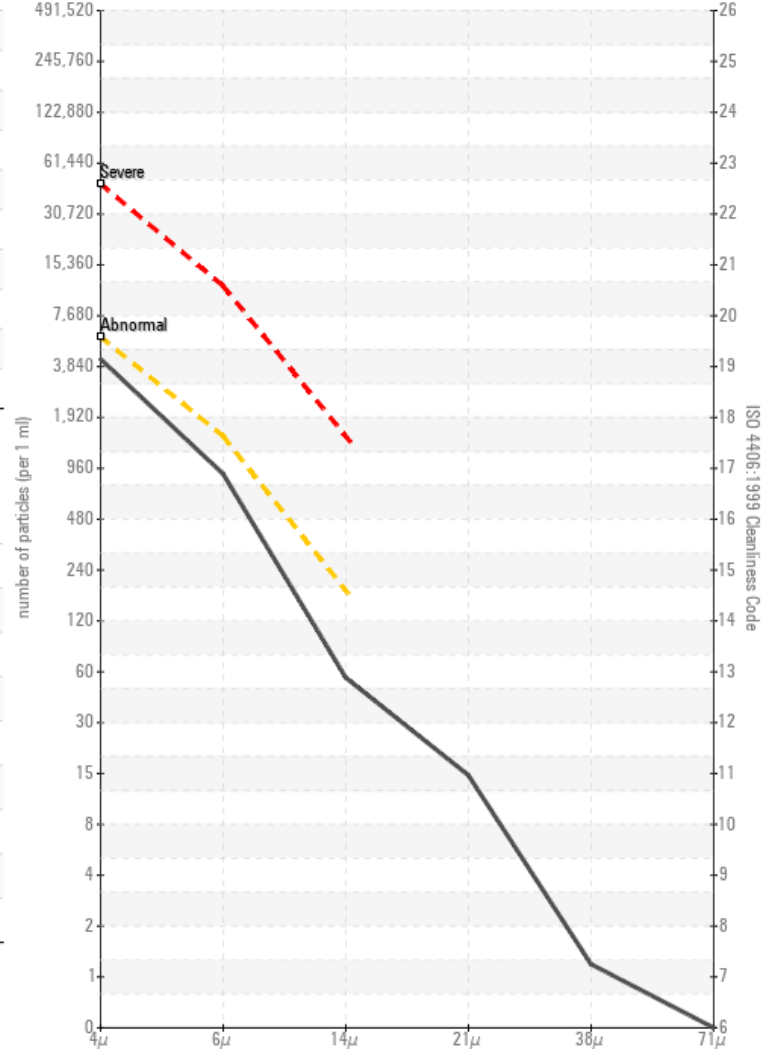
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

