



CONSTRUCTION EQUIPMENT

A11676 VOLVO L70H 622711 - HYDRAULIC SYSTEM



Sample No: VCP429687
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A11676



SAMPLE INFORMATION

Sample Number	VCP429687	VCP399917	VCP321657	VCP267748
Sample Date	12 Dec 2023	08 Mar 2023	05 Jul 2021	17 Jun 2020
Machine Hours	4890	4425	3010	2500
Oil Hours	500	4000	300	2500
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.8	41.4	42.2	40.1
Acid Number (AN)	mg KOH/g	0.39	0.26	0.373	0.398

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		13167	19478	6687	34834
Particles >6µm		3440	1594	315	2335
Particles >14µm		435	82	19	152
ISO 4406:1999 (c)		21/19/16	21/18/14	20/15/11	22/18/14
Silicon	ppm	4	6	4	7
Sodium	ppm	0	<1	<1	12
Potassium	ppm	<1	0	<1	<1

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	10	17	10	6
Copper	ppm	2	3	2	2
Lead	ppm	<1	<1	1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	1	0	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	199	168	186	102
Magnesium	ppm	9	2	2	3
Zinc	ppm	496	446	451	117
Phosphorus	ppm	417	358	338	217
Barium	ppm	6	0	0	0
Boron	ppm	2	2	6	8

Depot: JAAPHI
Unique No: 10796634
Signed: Wes Davis
Report Date: 21 Dec 2023

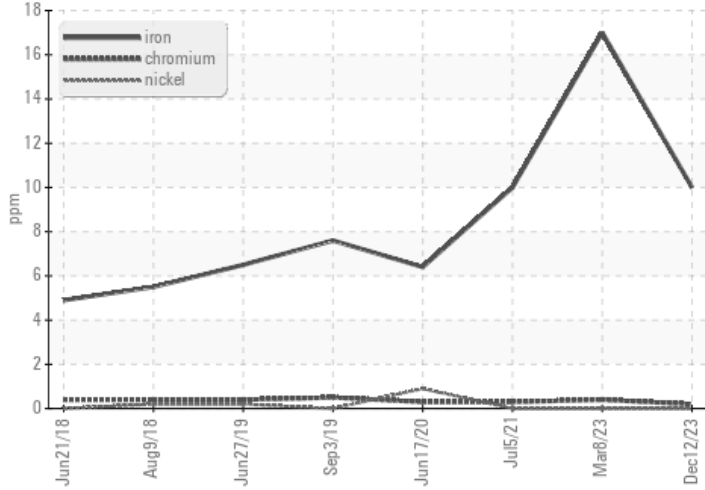


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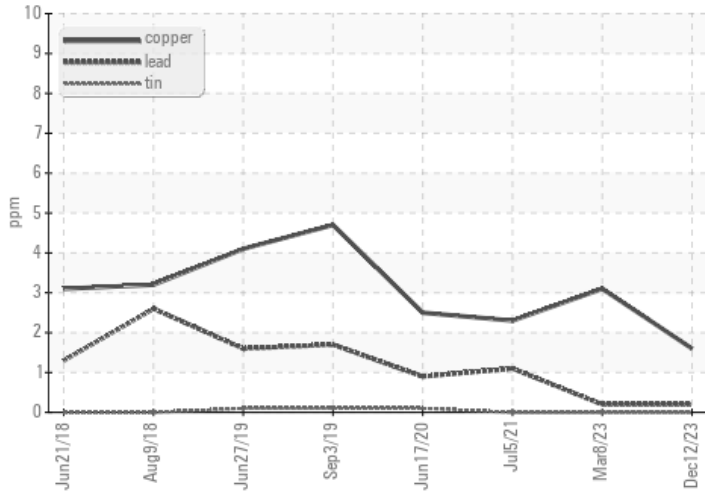


VOLVO GRAPHS

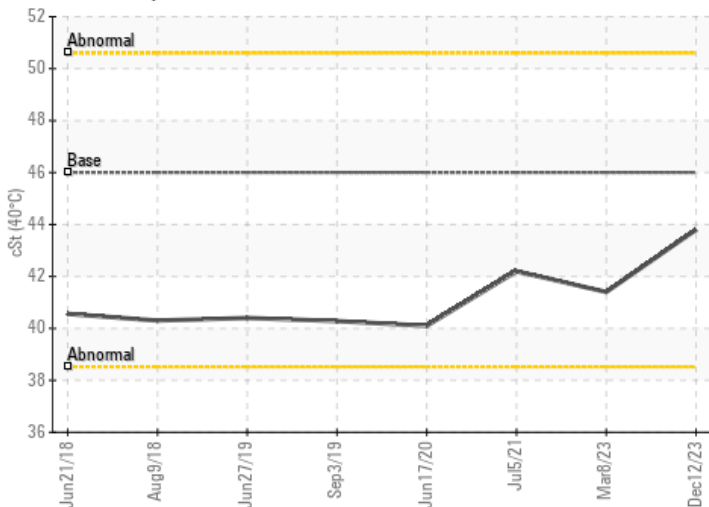
Ferrous Alloys



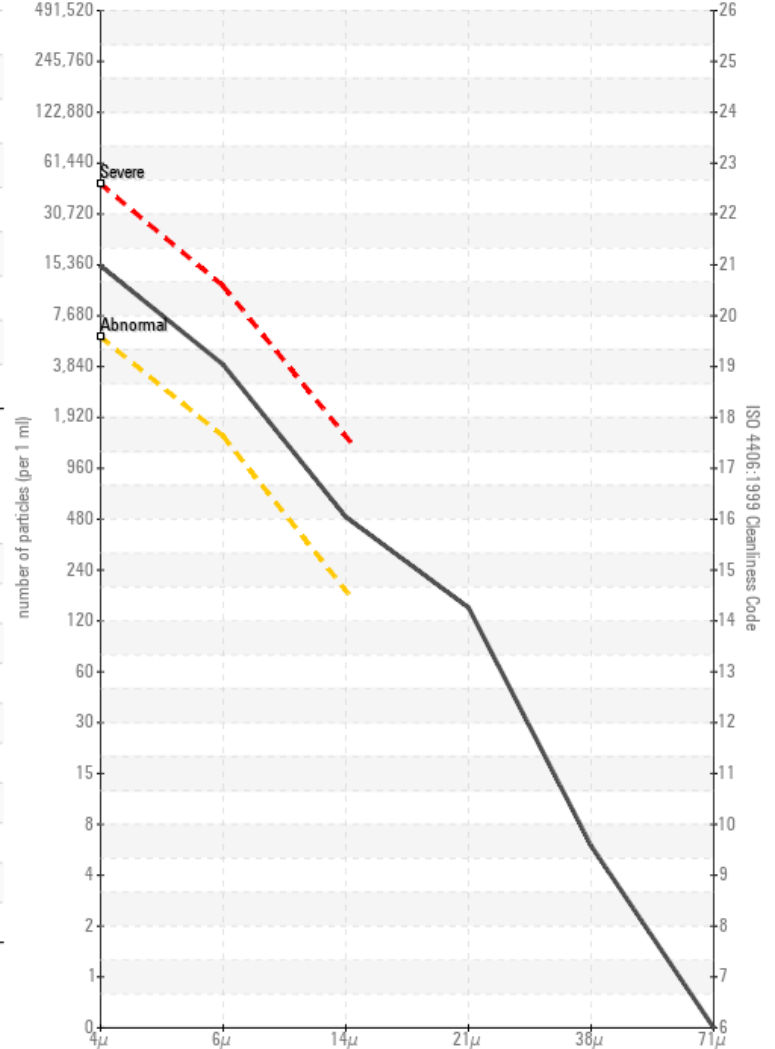
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

