



CONSTRUCTION EQUIPMENT

A12387 VOLVO L120H 632707 - HYDRAULIC SYSTEM



Sample No: VCP439374
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A12387



SAMPLE INFORMATION

Sample Number	VCP439374	VCP416454	VCP364092	VCP339211
Sample Date	05 Apr 2024	04 Aug 2023	09 Sep 2022	25 Jan 2022
Machine Hours	4750	4040	3445	2840
Oil Hours	4000	0	1000	2840
Oil Changed	Changed	N/A	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.6	42.1	42.1	42.6
Acid Number (AN)	mg KOH/g	0.29	0.36	0.39	0.35



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2163	21917	937	4475
Particles >6µm		256	7543	82	629
Particles >14µm		28	587	5	33
ISO 4406:1999 (c)		18/15/12	22/20/16	17/14/10	19/16/12
Silicon	ppm	6	5	4	5
Sodium	ppm	<1	0	0	2
Potassium	ppm	0	0	2	0

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	7	10	9	8
Copper	ppm	<1	<1	3	2
Lead	ppm	0	0	2	2
Tin	ppm	<1	0	<1	0
Aluminum	ppm	0	0	2	<1
Chromium	ppm	1	2	2	2
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	776	339	332	159
Magnesium	ppm	14	10	8	8
Zinc	ppm	585	533	505	445
Phosphorus	ppm	475	419	383	342
Barium	ppm	0	0	0	0
Boron	ppm	22	6	9	6

Depot: JAAPHI
Unique No: 10968983
Signed: Don Baldrige
Report Date: 12 Apr 2024

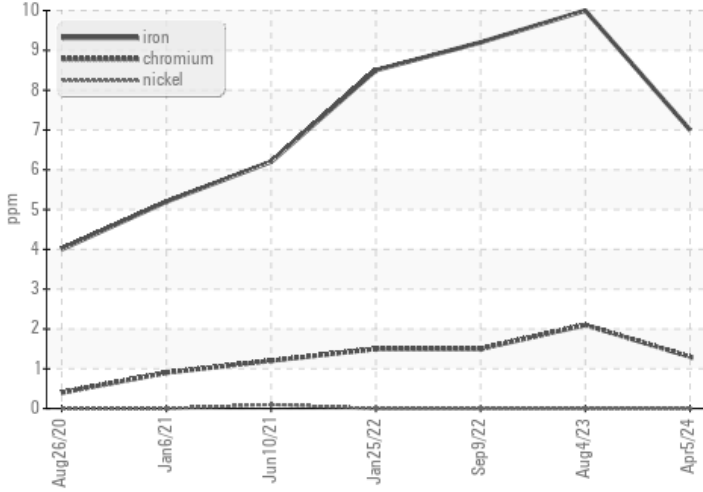


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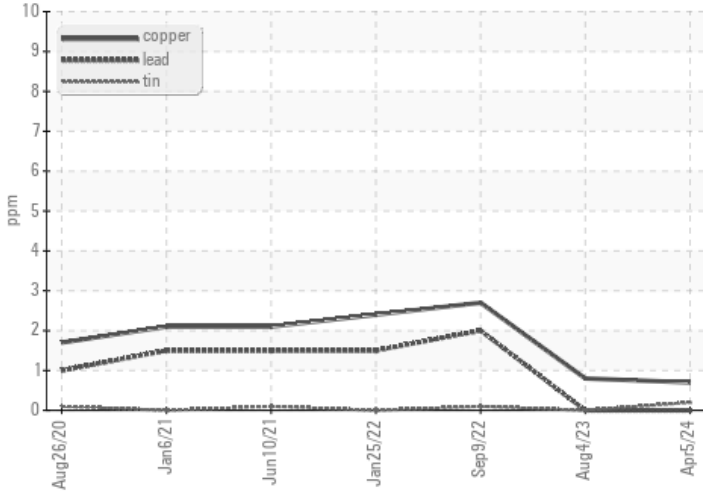


GRAPHS

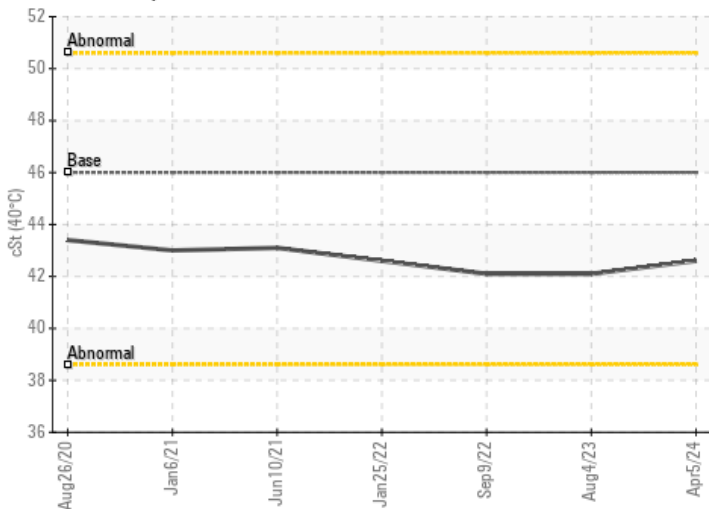
Ferrous Alloys



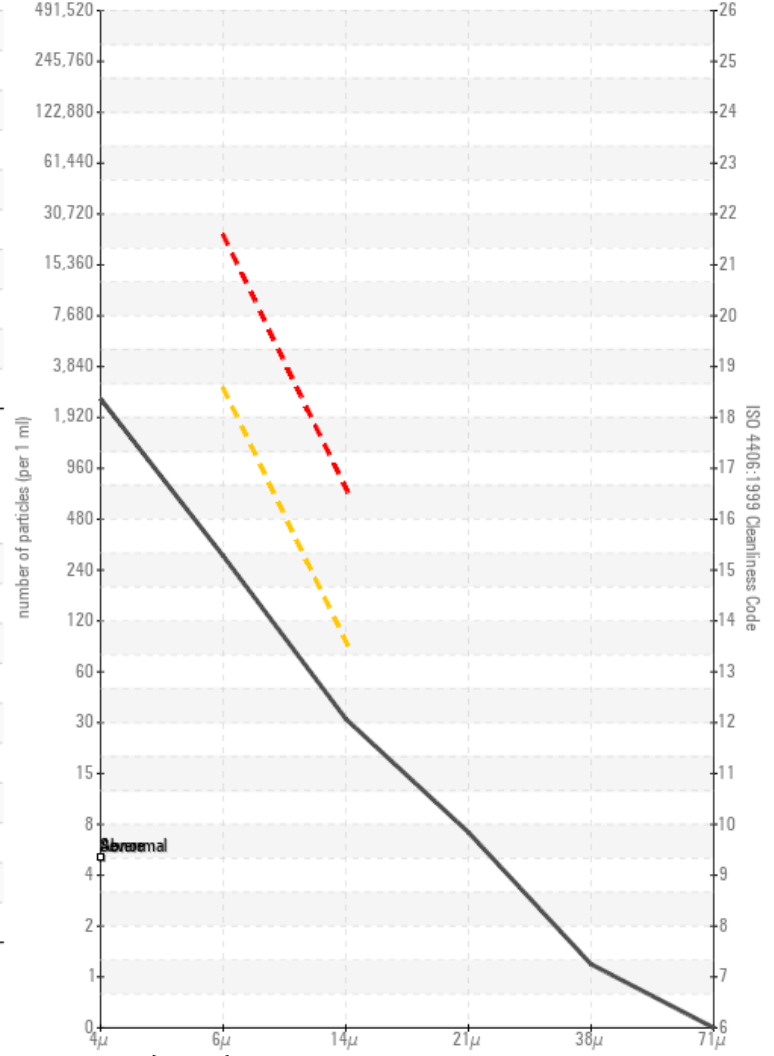
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

