



CONSTRUCTION EQUIPMENT

46701 VOLVO L60H 621088 - HYDRAULIC SYSTEM



Sample No: VCP432698
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 46701



SAMPLE INFORMATION

Sample Number	VCP432698	VCP283255	VCP229600	---
Sample Date	13 Dec 2023	14 May 2020	15 Jun 2018	---
Machine Hours	12000	8038	3876	---
Oil Hours	12000	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ATTENTION	---



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OIL CONDITION

Visc @ 40°C	cSt	42.1	44.5	44.1	---
Acid Number (AN)	mg KOH/g	0.40	0.273	0.388	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		6925	659	65378	---
Particles >6µm		1008	175	3974	---
Particles >14µm		39	11	151	---
ISO 4406:1999 (c)		20/17/12	17/15/11	23/19/14	---
Silicon	ppm	8	19	15	---
Sodium	ppm	4	0	<1	---
Potassium	ppm	<1	<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	8	8	8	---
Copper	ppm	2	4	6	---
Lead	ppm	2	2	2	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	4	7	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	2	<1	0	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	0	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	75	79	144	---
Magnesium	ppm	12	2	<1	---
Zinc	ppm	384	445	412	---
Phosphorus	ppm	345	350	325	---
Barium	ppm	0	0	0	---
Boron	ppm	1	<1	1	---

Depot: VOLVO8531
Unique No: 10833976
Signed: Wes Davis
Report Date: 18 Jan 2024

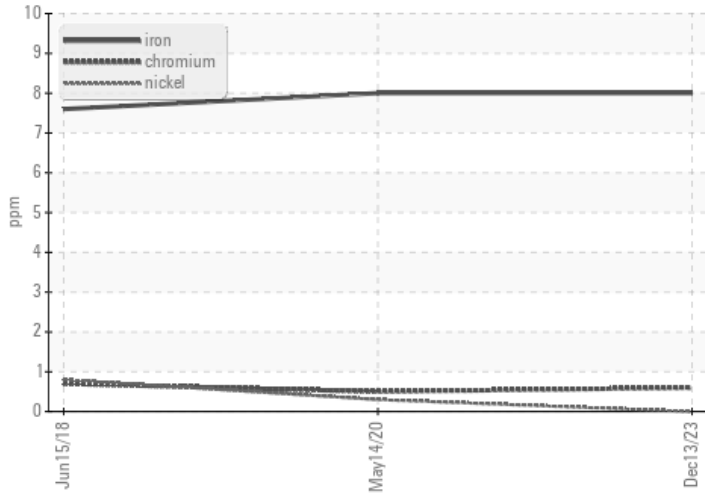


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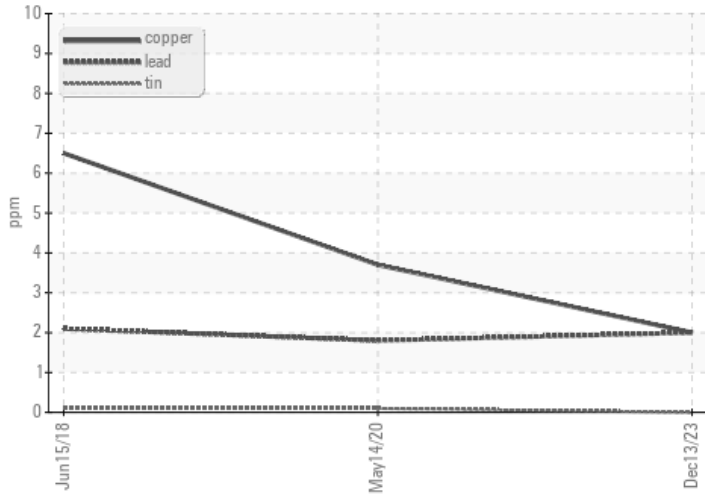


GRAPHS

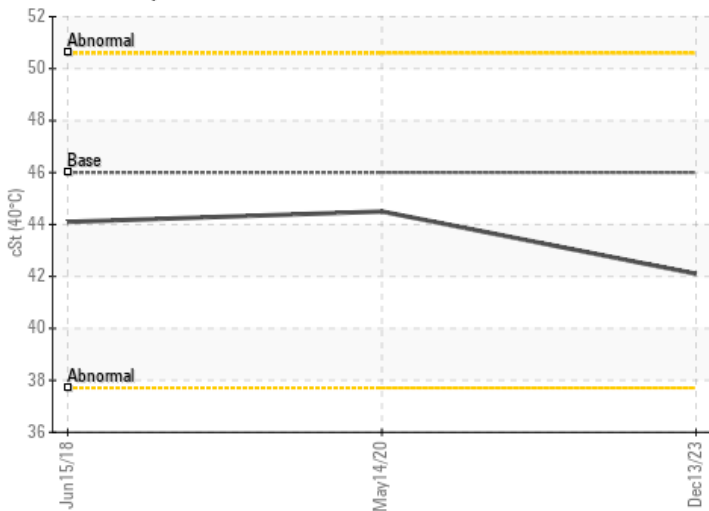
Ferrous Alloys



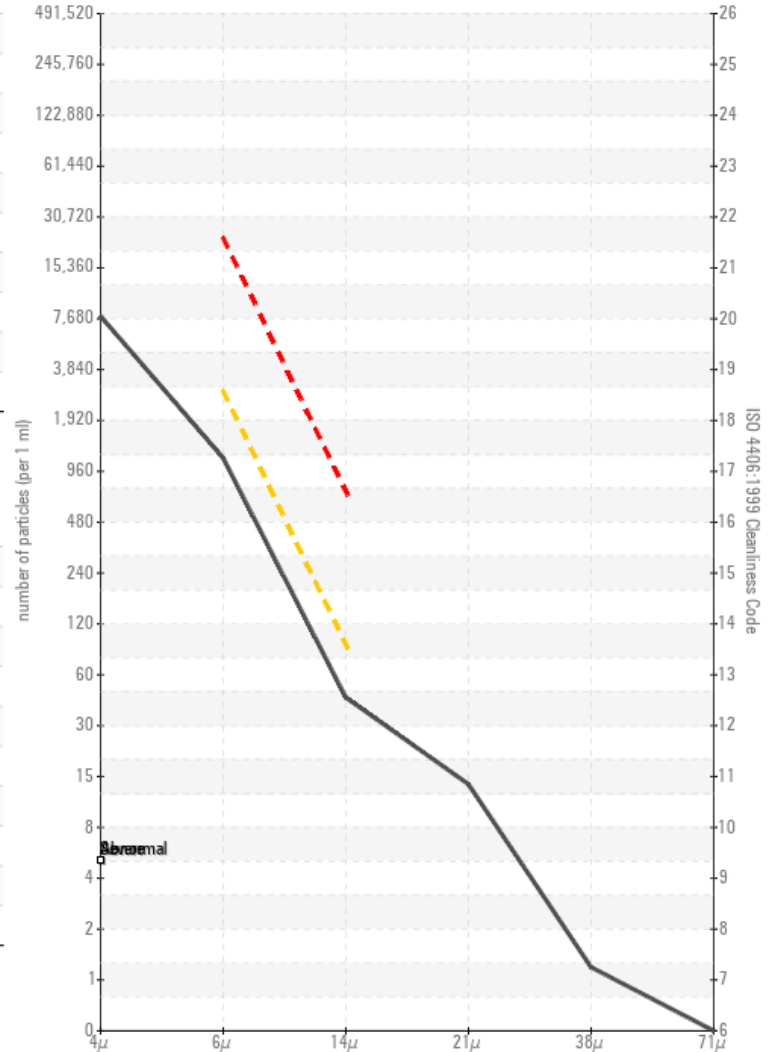
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

