



CONSTRUCTION EQUIPMENT

0196 VOLVO L110H 632536 - HYDRAULIC SYSTEM



Sample No: VCP438939
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 0196



SAMPLE INFORMATION

Sample Number	VCP438939	VCP434696	VCP427047	---
Sample Date	19 Jan 2024	02 Sep 2023	22 Jun 2023	---
Machine Hours	2056	1051	539	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

COVANTA LAKES
 3830 ROGERS INDUSTRIAL PARK ROAD
 OKAHUMPKA, FL
 US 32762
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 40°C	cSt	43.0	43.1	44.0	---
Acid Number (AN)	mg KOH/g	0.27	0.35	0.43	---

T:
F:

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		4547	8011	3523	---
Particles >6µm		317	1251	484	---
Particles >14µm		27	66	21	---
ISO 4406:1999 (c)		19/15/12	20/17/13	19/16/12	---
Silicon	ppm	2	2	<1	---
Sodium	ppm	2	<1	<1	---
Potassium	ppm	0	0	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	4	3	<1	---
Copper	ppm	2	1	<1	---
Lead	ppm	1	<1	0	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	0	0	2	---
Chromium	ppm	1	<1	0	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	0	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	70	61	49	---
Magnesium	ppm	5	6	3	---
Zinc	ppm	427	419	410	---
Phosphorus	ppm	332	335	314	---
Barium	ppm	0	6	4	---
Boron	ppm	0	0	0	---

Depot: COVOKA
Unique No: 10846178
Signed: Wes Davis
Report Date: 25 Jan 2024

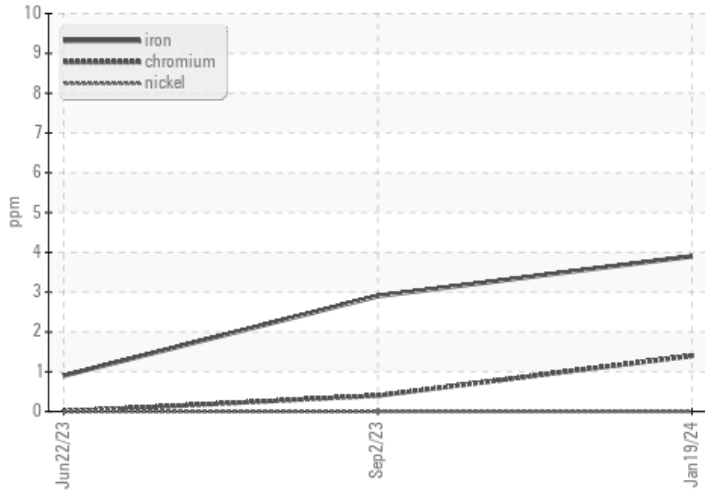


CONSTRUCTION EQUIPMENT

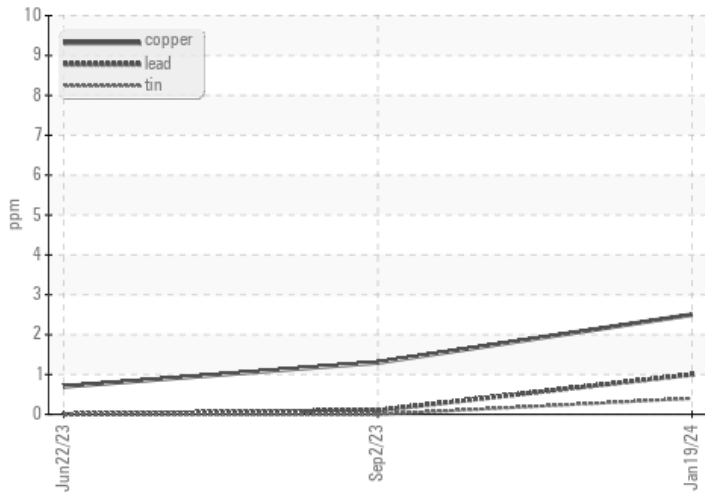


GRAPHS

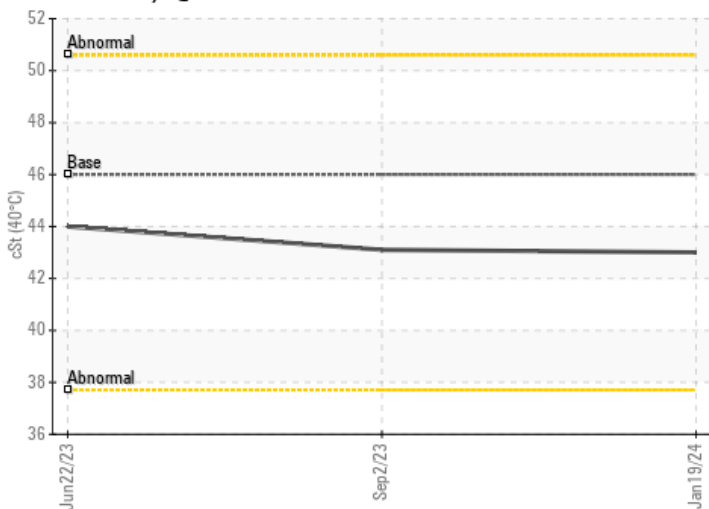
Ferrous Alloys



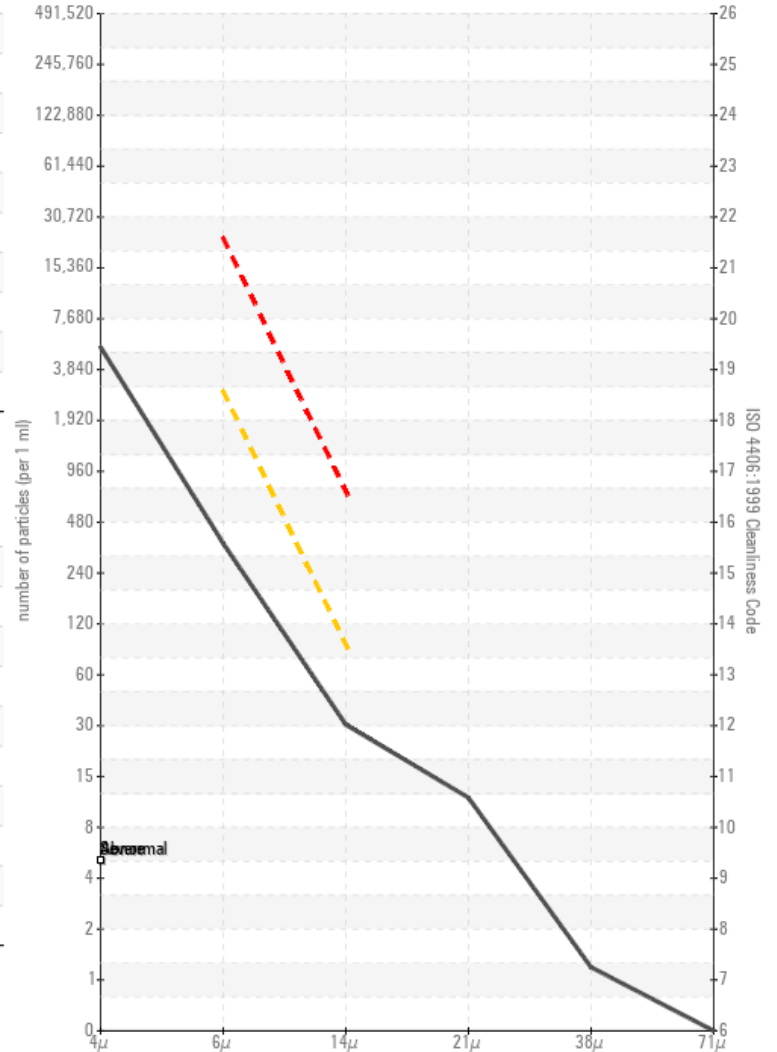
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

