



CONSTRUCTION EQUIPMENT

566012 VOLVO L110H 632273 - HYDRAULIC SYSTEM



Sample No: VCP411624
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 566012



SAMPLE INFORMATION

Sample Number	VCP411624	VCP386647	---	---
Sample Date	14 Jun 2023	29 Nov 2022	---	---
Machine Hours	2490	1001	---	---
Oil Hours	2490	1000	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
rturner@ripatampa.com
T:
F:



OIL CONDITION

Visc @ 40°C	cSt	43.6	42.8	---	---
Acid Number (AN)	mg KOH/g	0.30	0.48	---	---



CONTAMINATION

Particles >4µm		18082	28118	---	---
Particles >6µm		3972	3306	---	---
Particles >14µm		462	132	---	---
ISO 4406:1999 (c)		21/19/16	22/19/14	---	---
Silicon	ppm	3	4	---	---
Sodium	ppm	0	1	---	---
Potassium	ppm	1	0	---	---



WEAR METALS

Iron	ppm	5	5	---	---
Copper	ppm	2	36	---	---
Lead	ppm	2	0	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	<1	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	0	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	71	87	---	---
Magnesium	ppm	1	0	---	---
Zinc	ppm	443	508	---	---
Phosphorus	ppm	333	450	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

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.

Depot: RIPTAM
Unique No: 10550749
Signed: Wes Davis
Report Date: 12 Jul 2023

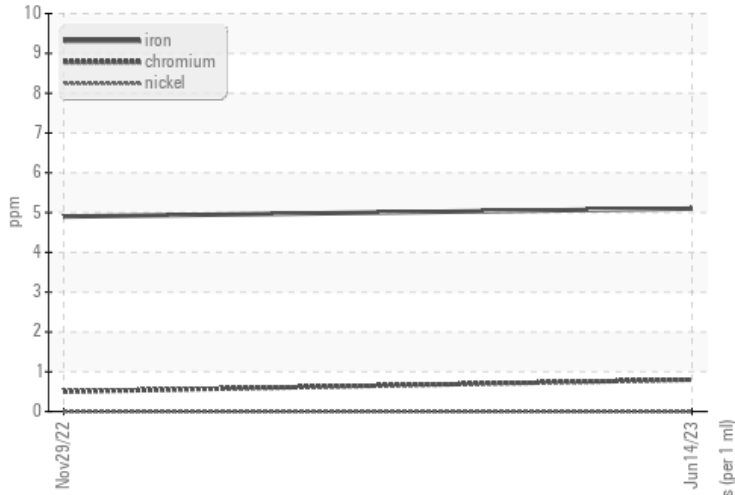


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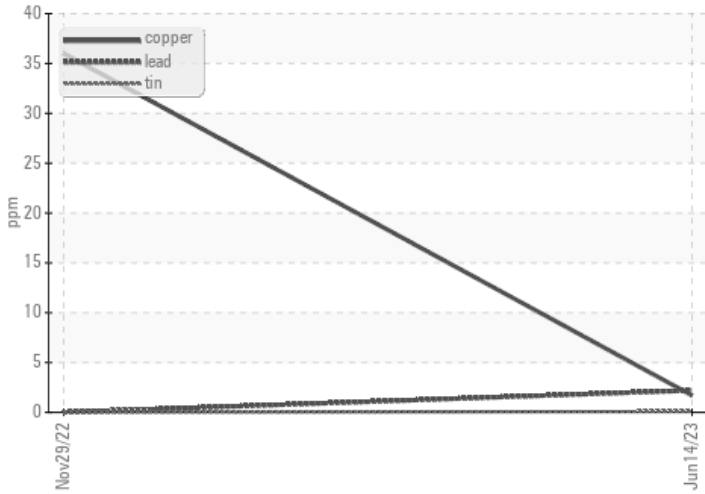


GRAPHS

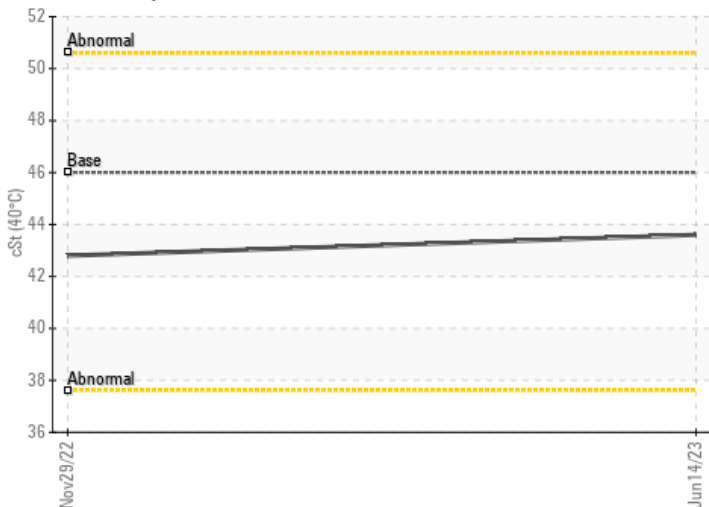
Ferrous Alloys



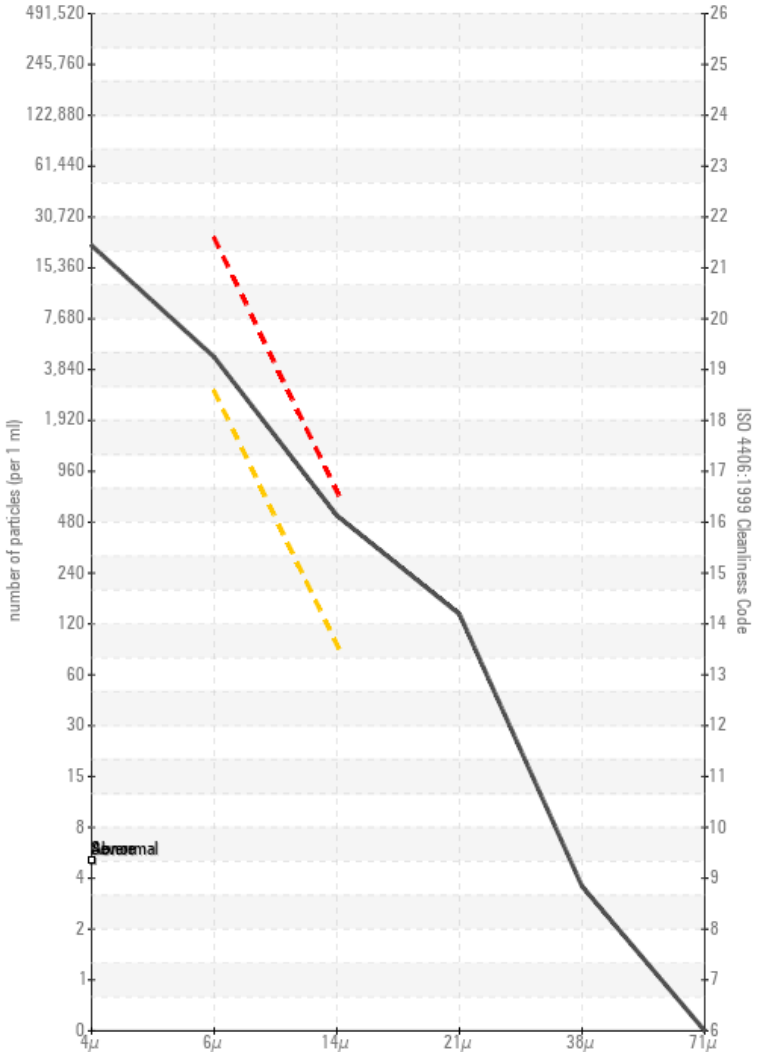
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

