



CONSTRUCTION EQUIPMENT

VOLVO L90H 624818 - HYDRAULIC SYSTEM



Sample No: VCP411634
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP411634	VCP313198	VCP296369	---
Sample Date	05 Jun 2023	14 Oct 2021	08 Dec 2020	---
Machine Hours	3023	2055	983	---
Oil Hours	0	1500	983	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

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	43.9	43.4	---
Acid Number (AN)	mg KOH/g	0.34	0.342	0.396	---



CONTAMINATION

Particles >4µm		17746	---	15288	---
Particles >6µm		5145	---	2963	---
Particles >14µm		406	---	222	---
ISO 4406:1999 (c)		21/20/16	---	21/19/15	---
Silicon	ppm	2	3	2	---
Sodium	ppm	1	2	1	---
Potassium	ppm	0	<1	0	---



WEAR METALS

Iron	ppm	5	6	3	---
Copper	ppm	3	4	3	---
Lead	ppm	2	4	2	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	<1	1	0	---
Chromium	ppm	1	1	<1	---
Molybdenum	ppm	0	<1	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	48	56	50	---
Magnesium	ppm	<1	<1	<1	---
Zinc	ppm	404	458	429	---
Phosphorus	ppm	331	350	308	---
Barium	ppm	0	0	0	---
Boron	ppm	0	4	2	---

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: 10551882
Signed: Wes Davis
Report Date: 13 Jul 2023

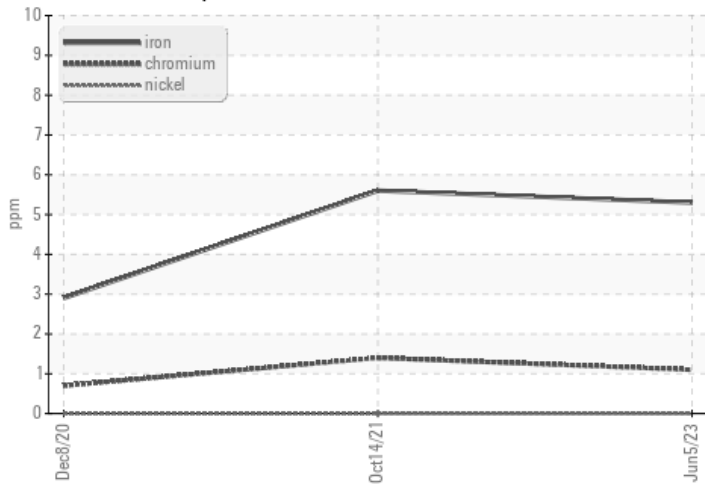


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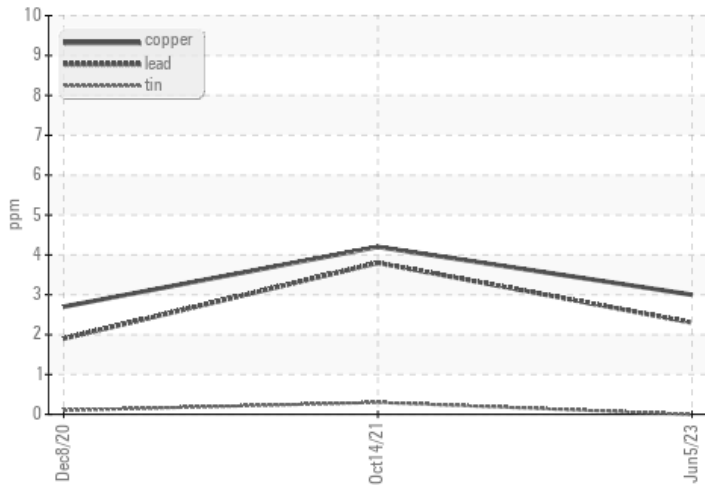


GRAPHS

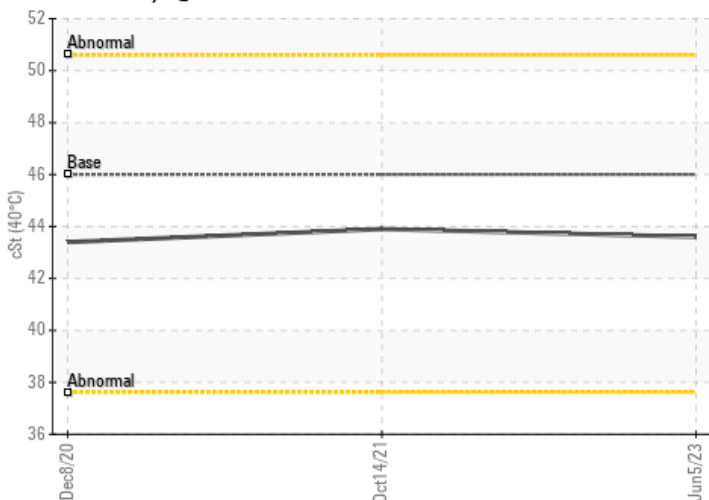
Ferrous Alloys



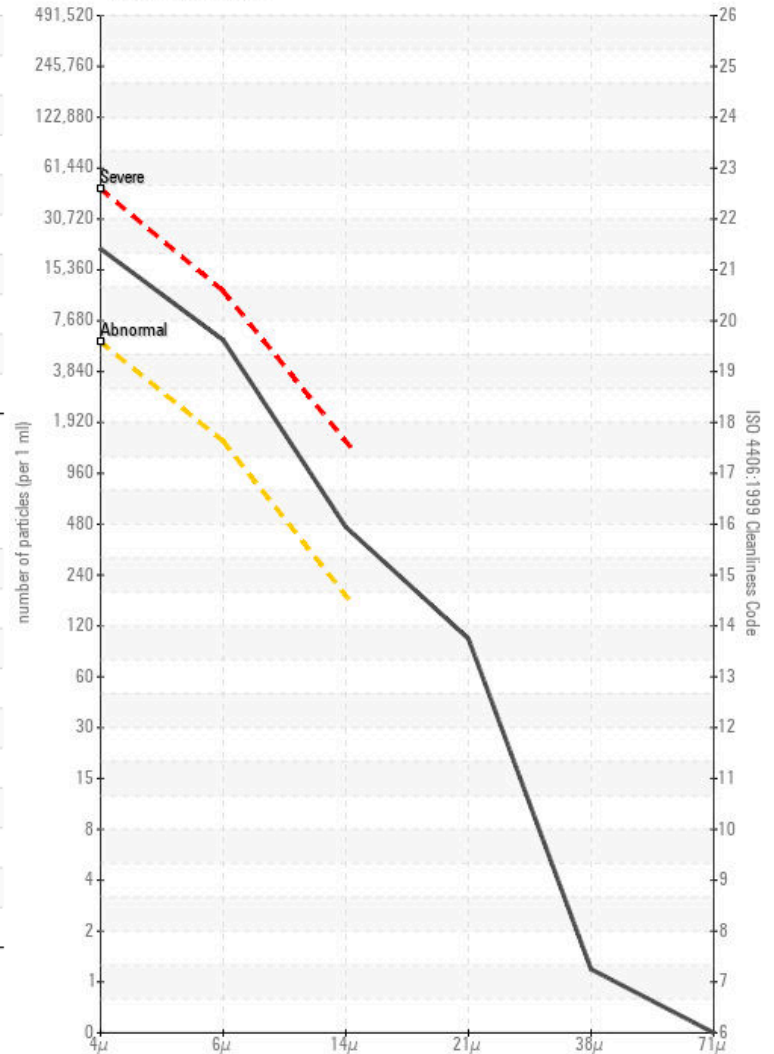
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

