



CONSTRUCTION EQUIPMENT

VOLVO L90H 625035 - HYDRAULIC SYSTEM



Sample No: VCP444259
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP444259	VCP379683	---	---
Sample Date	15 Feb 2024	30 Jan 2023	---	---
Machine Hours	3984	3010	---	---
Oil Hours	0	1500	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

RIPA AND ASSOCIATES

10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	46.0	46.6	---	---
Acid Number (AN)	mg KOH/g	0.24	0.33	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		15631	47888	---	---
Particles >6µm		4720	13465	---	---
Particles >14µm		255	813	---	---
ISO 4406:1999 (c)		21/19/15	23/21/17	---	---
Silicon	ppm	2	4	---	---
Sodium	ppm	<1	2	---	---
Potassium	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.



WEAR METALS

Iron	ppm	2	7	---	---
Copper	ppm	<1	3	---	---
Lead	ppm	<1	2	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	0	<1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	0	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	92	78	---	---
Magnesium	ppm	1	<1	---	---
Zinc	ppm	449	418	---	---
Phosphorus	ppm	349	338	---	---
Barium	ppm	0	0	---	---
Boron	ppm	1	0	---	---

Depot: RIPTAM
Unique No: 10900657
Signed: Wes Davis
Report Date: 29 Feb 2024

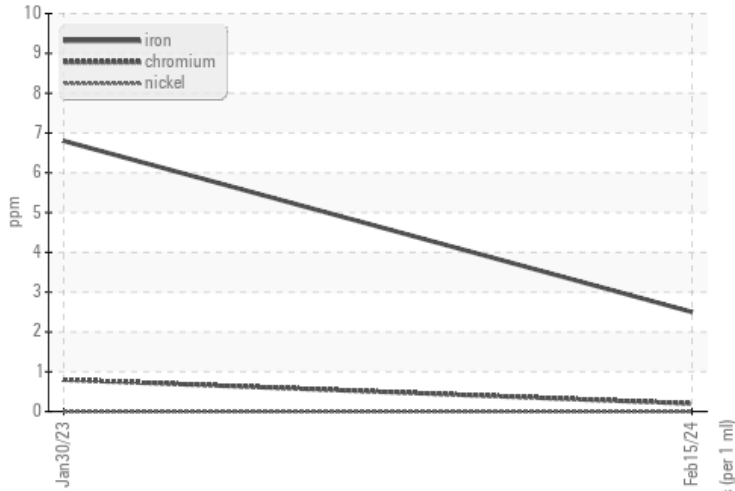


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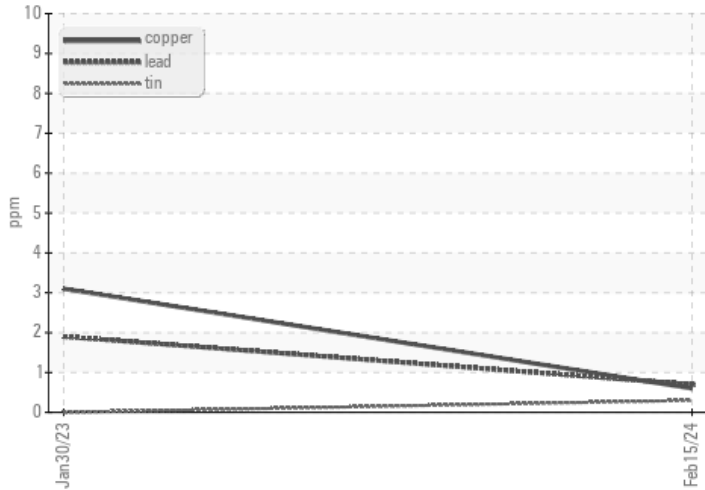


GRAPHS

Ferrous Alloys



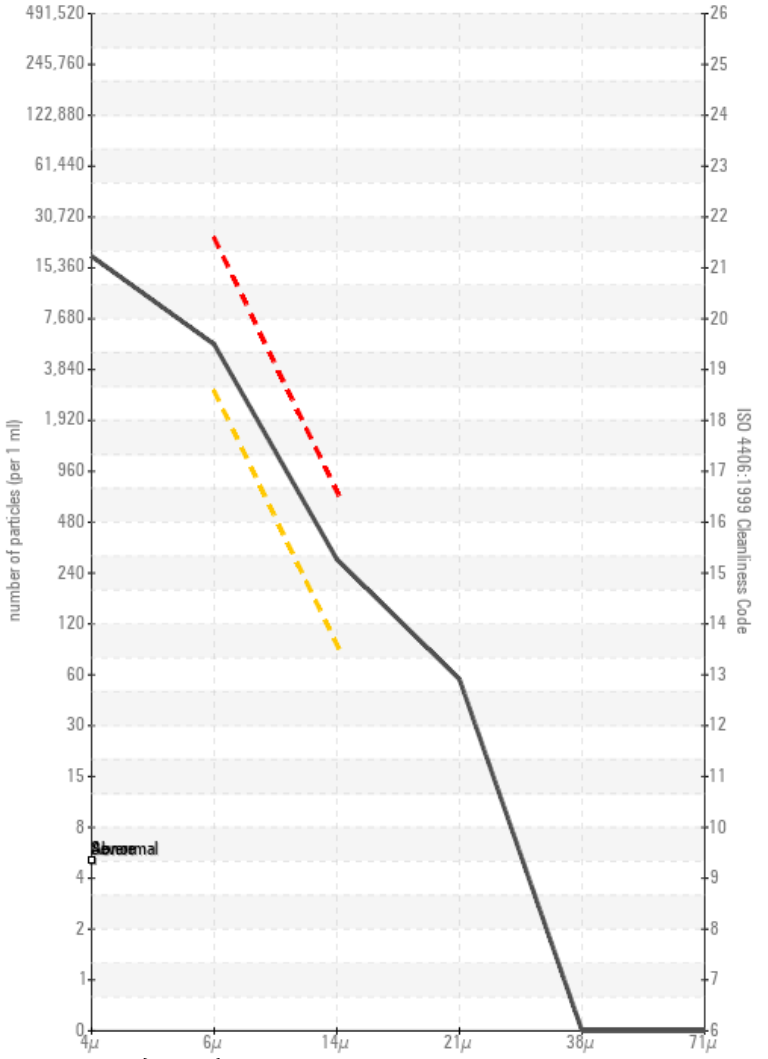
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

