



CONSTRUCTION EQUIPMENT

PRINCE VOLVO L90H 626547 - HYDRAULIC SYSTEM



Sample No: VCP441884
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: PRINCE



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SAMPLE INFORMATION

Sample Number	VCP441884	VCP411999	---	---
Sample Date	31 Jan 2024	01 Aug 2023	---	---
Machine Hours	2176	1131	---	---
Oil Hours	0	1131	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	SEVERE	ATTENTION	---	---



OIL CONDITION

Visc @ 40°C	cSt	43.1	43.4	---	---
Acid Number (AN)	mg KOH/g	0.34	0.39	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		34393	8675	---	---
Particles >6µm		11419	2045	---	---
Particles >14µm		1033	146	---	---
ISO 4406:1999 (c)		22/21/17	20/18/14	---	---
Silicon	ppm	3	3	---	---
Sodium	ppm	1	1	---	---
Potassium	ppm	3	0	---	---



WEAR METALS

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



ADDITIVES

Calcium	ppm	66	88	---	---
Magnesium	ppm	6	4	---	---
Zinc	ppm	435	433	---	---
Phosphorus	ppm	339	344	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high 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: VOLVO0093
Unique No: 10863381
Signed: Wes Davis
Report Date: 07 Feb 2024

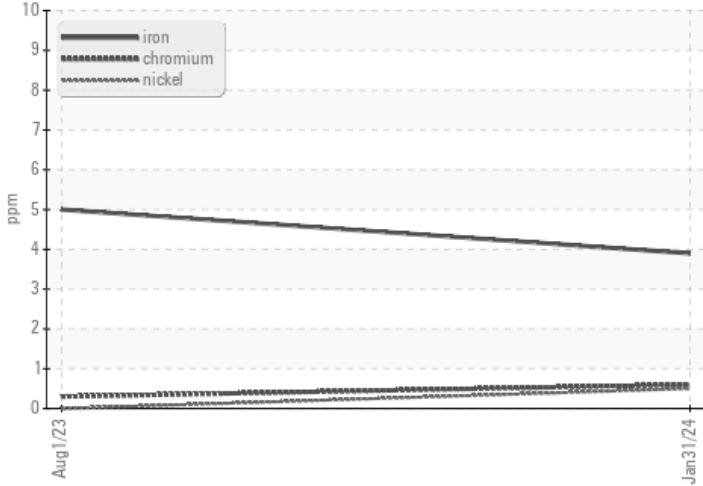


CONSTRUCTION EQUIPMENT

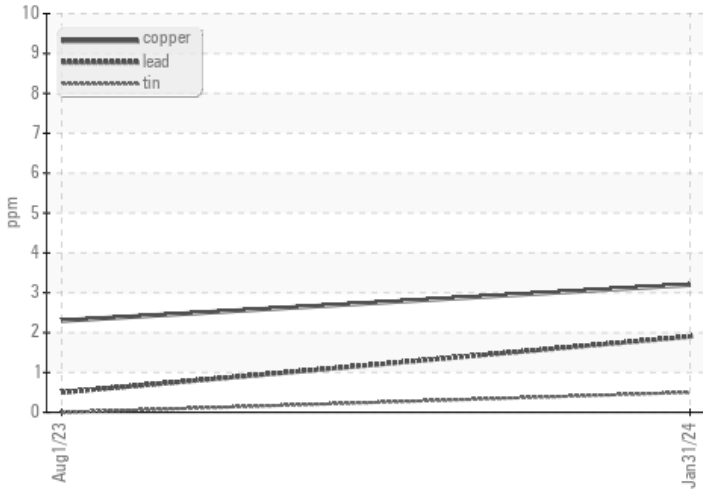


GRAPHS

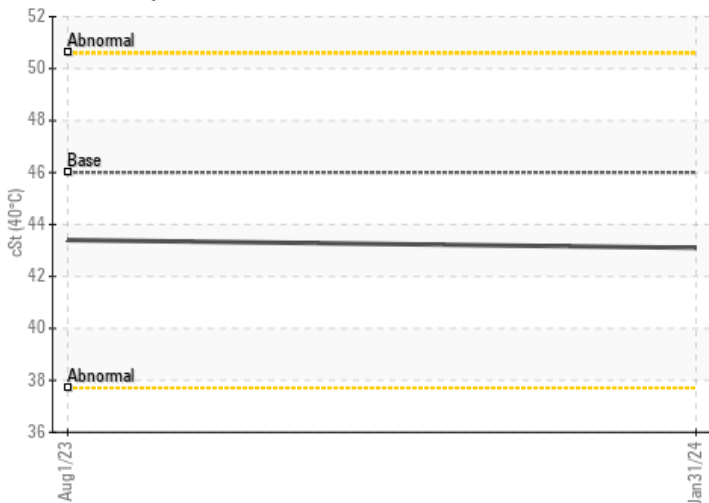
Ferrous Alloys



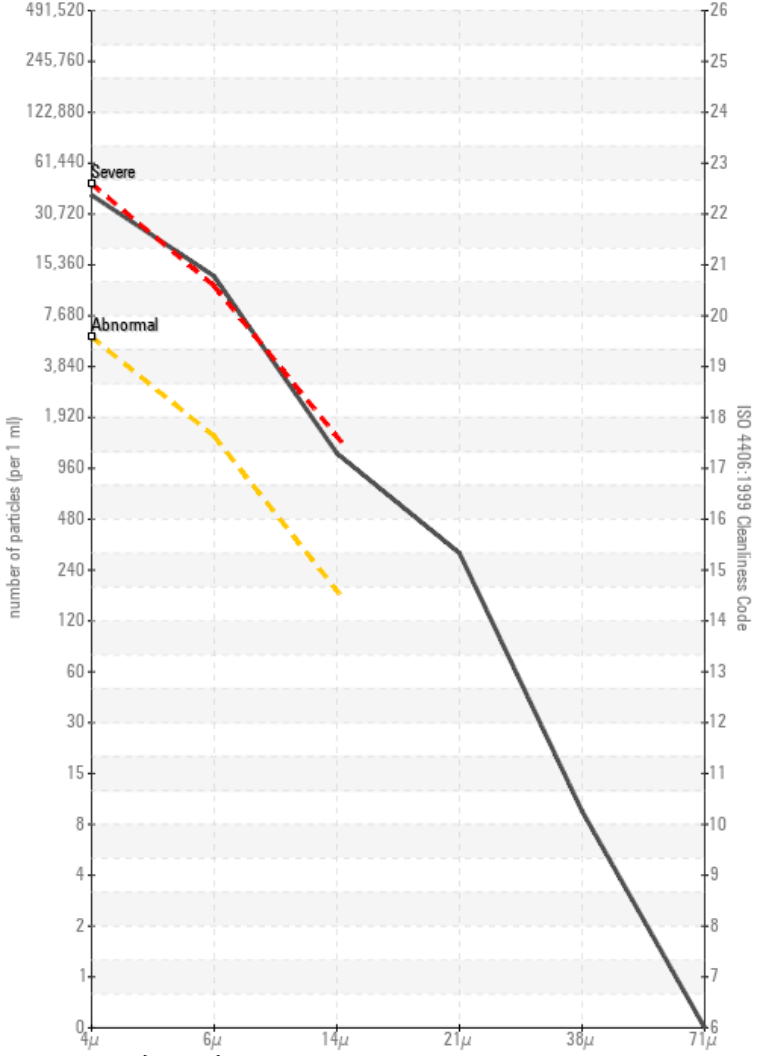
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

