



CONSTRUCTION EQUIPMENT

717267 PRINCE VOLVO L90H 627128 - HYDRAULIC SYSTEM



Sample No: VCP454563
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 717267 PRINCE



SAMPLE INFORMATION

Sample Number	VCP454563	VCP439694	---	---
Sample Date	25 May 2024	29 Dec 2023	---	---
Machine Hours	1119	482	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

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OIL CONDITION

Visc @ 40°C	cSt	44.2	44.7	---	---
Acid Number (AN)	mg KOH/g	0.538	0.43	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		10414	11963	---	---
Particles >6µm		2757	2760	---	---
Particles >14µm		211	83	---	---
ISO 4406:1999 (c)		21/19/15	21/19/14	---	---
Silicon	ppm	1	2	---	---
Sodium	ppm	<1	0	---	---
Potassium	ppm	0	1	---	---

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



ADDITIVES

Calcium	ppm	71	71	---	---
Magnesium	ppm	4	5	---	---
Zinc	ppm	456	462	---	---
Phosphorus	ppm	345	375	---	---
Barium	ppm	0	7	---	---
Boron	ppm	0	0	---	---

Depot: VOLVO0096
Unique No: 11058739
Signed: Wes Davis
Report Date: 03 Jun 2024

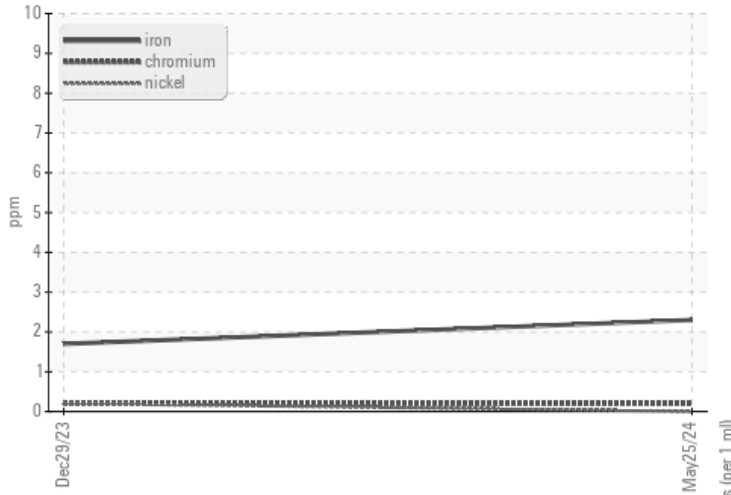


CONSTRUCTION EQUIPMENT

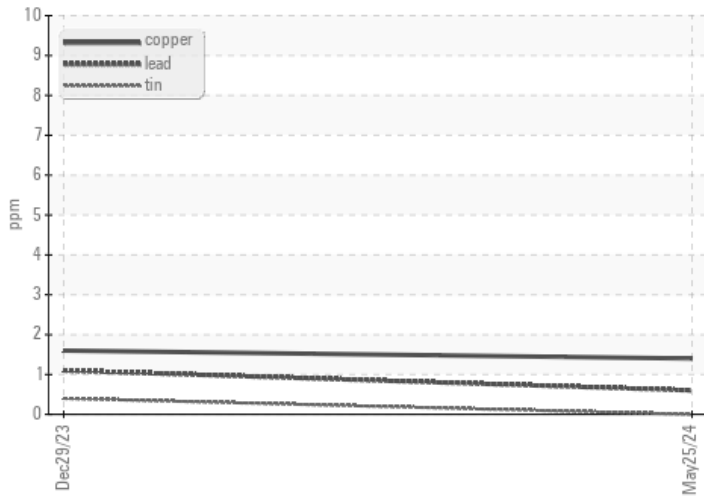


GRAPHS

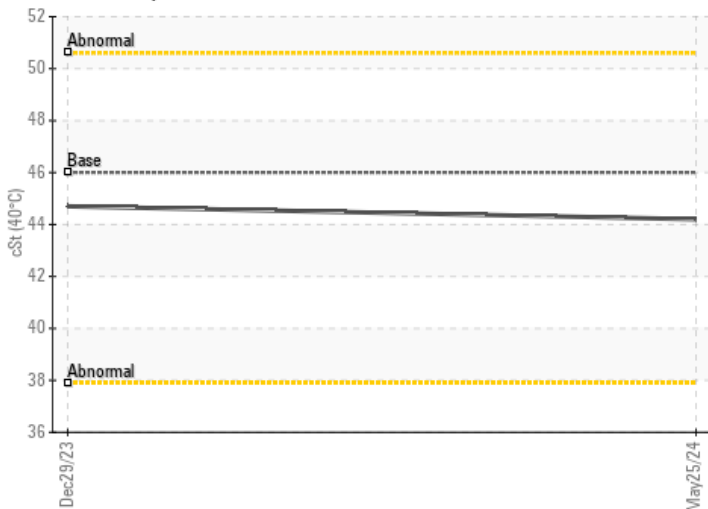
Ferrous Alloys



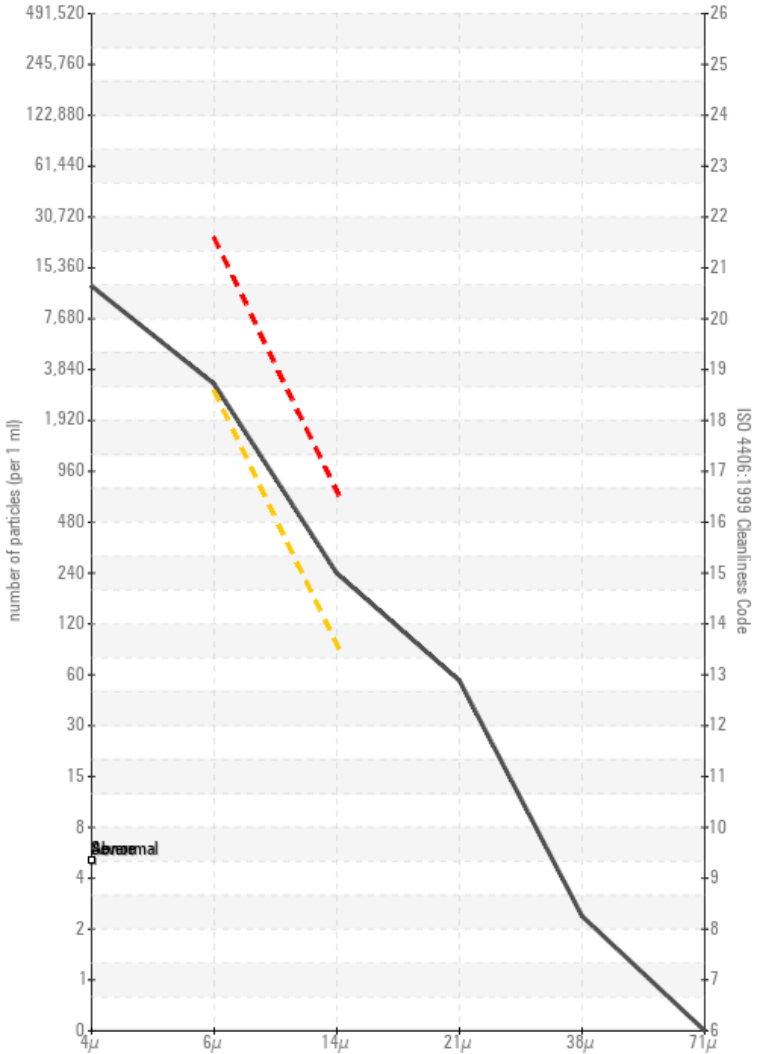
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

