



CONSTRUCTION EQUIPMENT

IMPACT AUTO 396842 VOLVO L90H 625974 - HYDRAULIC SYSTEM



Sample No: VCP450159
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 396842



SAMPLE INFORMATION

Sample Number	VCP450159	VCP394423	VCP334106	---
Sample Date	04 Mar 2024	14 Dec 2023	29 Nov 2022	---
Machine Hours	4543	4045	2097	---
Oil Hours	500	2000	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

STRONGCO EQUIPMENT-EDMONTON

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 Acheson, AB
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OIL CONDITION

Visc @ 40°C	cSt	35.2	51.1	▲ 21.1	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		398	579	█ 752	---
Particles >6µm		█ 111	█ 142	█ 219	---
Particles >14µm		█ 9	█ 8	█ 15	---
ISO 4406:1999 (c)		16/14/10	16/14/10	17/15/11	---
Silicon	ppm	█ 1	█ 3	█ 3	---
Sodium	ppm	█ <1	█ 1	█ 1	---
Potassium	ppm	█ <1	█ 0	█ <1	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The condition of the oil is acceptable for the time in service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	█ 52	█ 51	█ 51	---
Magnesium	ppm	█ <1	█ <1	█ <1	---
Zinc	ppm	█ 420	█ 433	█ 446	---
Phosphorus	ppm	█ 336	█ 336	█ 374	---
Barium	ppm	█ 0	█ <1	█ 0	---
Boron	ppm	█ <1	█ <1	█ <1	---

Depot: VOLVO3908
Unique No: 5737071
Signed: Kevin Marson
Report Date: 06 Mar 2024

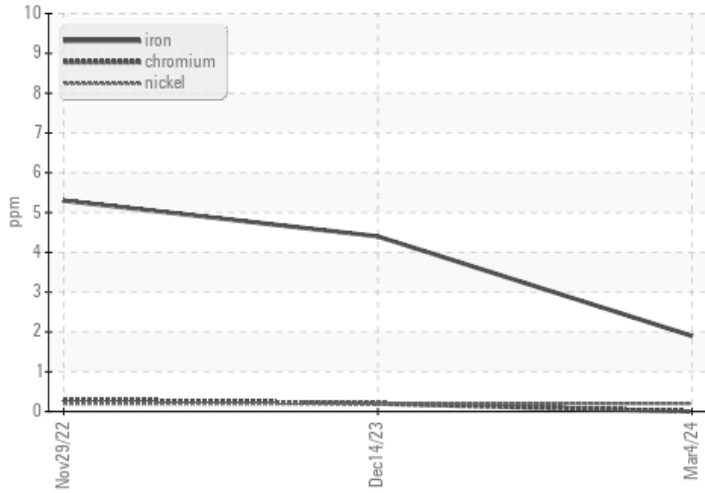


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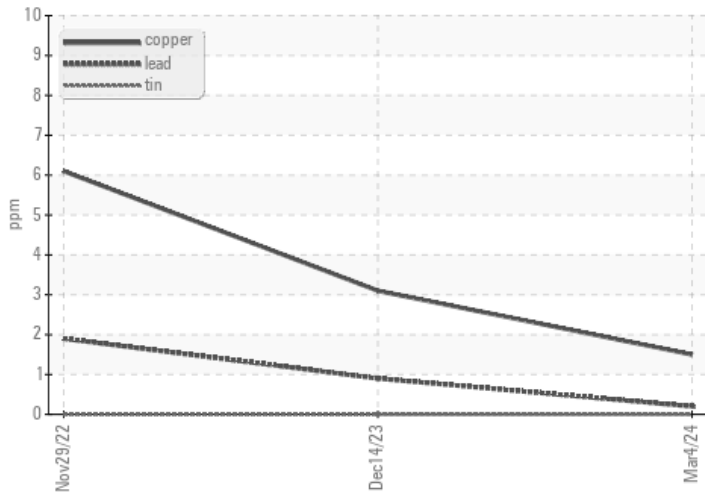


GRAPHS

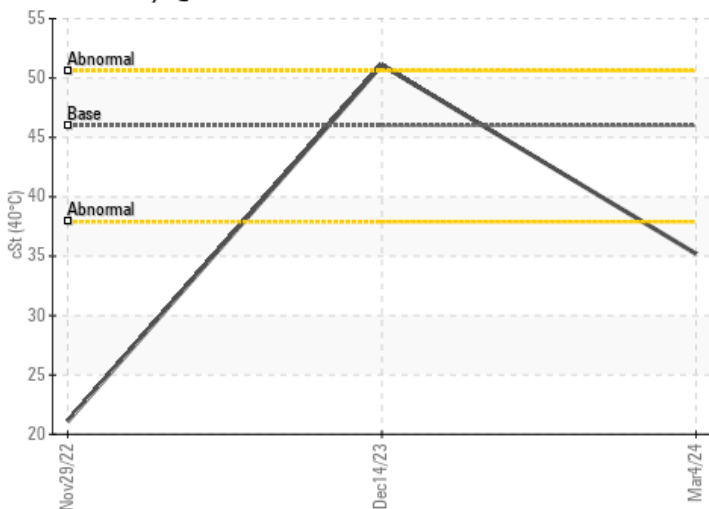
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

