



CONSTRUCTION EQUIPMENT

SWO=1026357 VOLVO L90H 625554 - HYDRAULIC SYSTEM



Sample No: VCP441005
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO=1026357



SAMPLE INFORMATION

Sample Number	VCP441005	VCP369175	---	---
Sample Date	14 Nov 2023	23 Mar 2023	---	---
Machine Hours	7077	6617	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	46.0	46.1	---	---
Acid Number (AN)	mg KOH/g	0.42	0.46	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		5346	20570	---	---
Particles >6µm		1473	2768	---	---
Particles >14µm		99	41	---	---
ISO 4406:1999 (c)		20/18/14	22/19/13	---	---
Silicon	ppm	4	8	---	---
Sodium	ppm	2	4	---	---
Potassium	ppm	2	<1	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	655	1504	---	---
Magnesium	ppm	33	29	---	---
Zinc	ppm	736	836	---	---
Phosphorus	ppm	607	657	---	---
Barium	ppm	0	0	---	---
Boron	ppm	21	45	---	---

Depot: VOLVO6174
Unique No: 10754151
Signed: Don Baldrige
Report Date: 26 Nov 2023

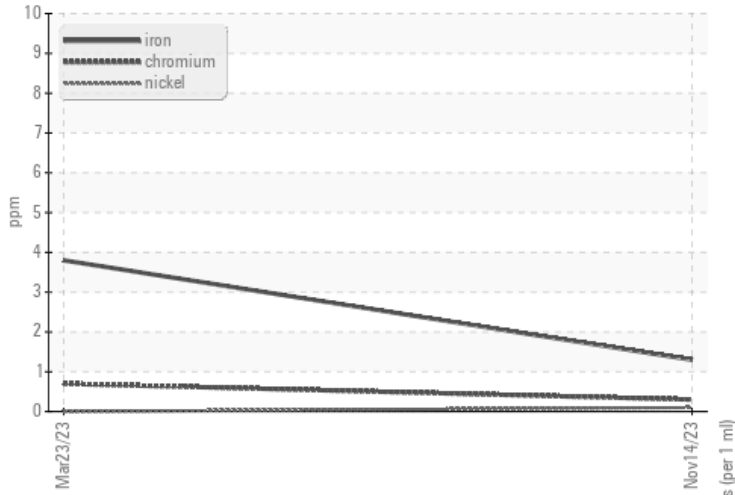


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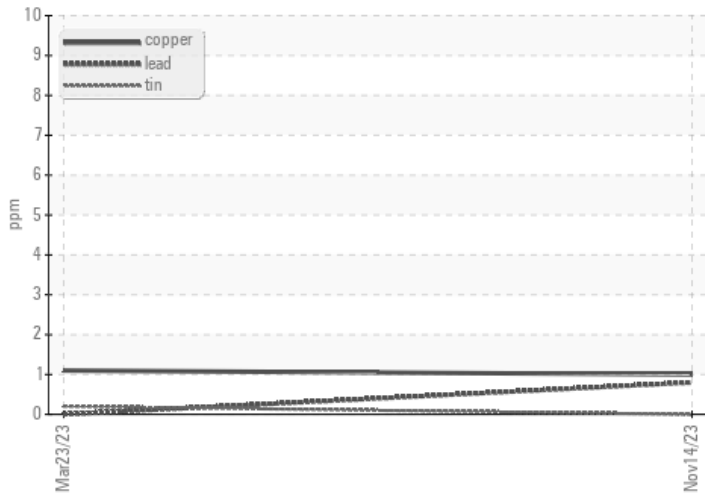


GRAPHS

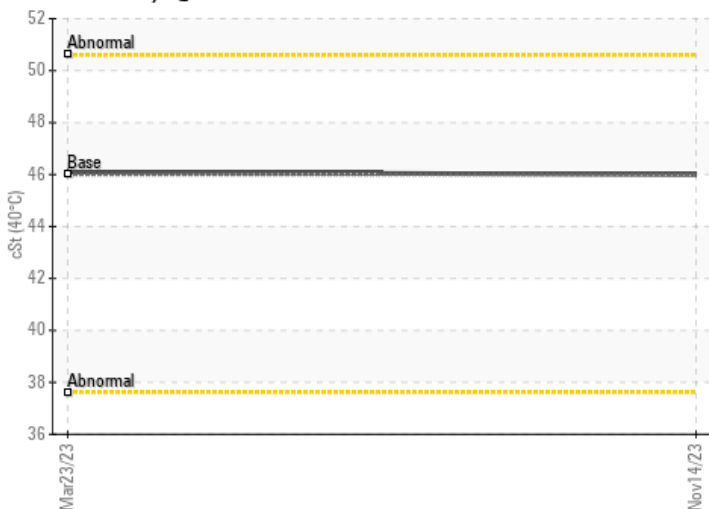
Ferrous Alloys



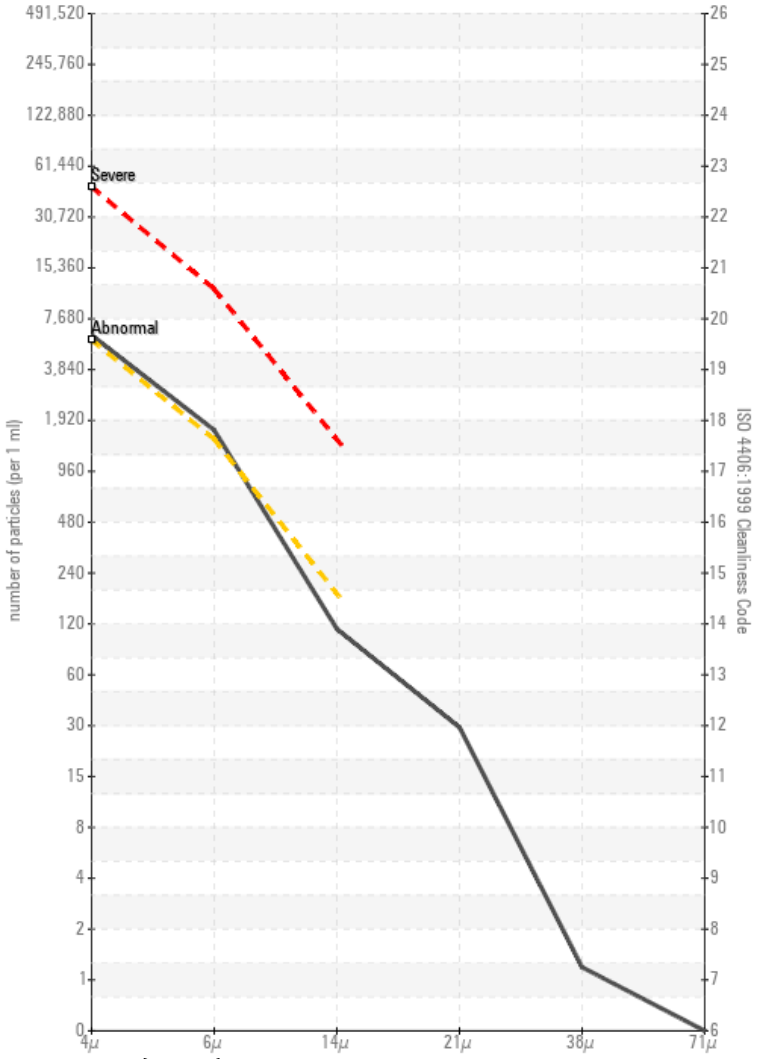
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

