



CONSTRUCTION EQUIPMENT

SPM595430 BULK EXP VOLVO L150H 6937 - HYDRAULIC SYSTEM



Sample No: VCP432659
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM595430 BULK EXP



SAMPLE INFORMATION

Sample Number	VCP432659	VCP411684	VCP408180	---
Sample Date	29 Aug 2023	26 May 2023	21 Mar 2023	---
Machine Hours	6060	5504	4909	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	SEVERE	SEVERE	ABNORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	48.2	49.5	49.8	---
Acid Number (AN)	mg KOH/g	0.34	0.34	0.34	---



CONTAMINATION

Particles >4µm		96745	72813	78287	---
Particles >6µm		18492	9408	10606	---
Particles >14µm		143	82	78	---
ISO 4406:1999 (c)		24/21/14	23/20/14	23/21/13	---
Silicon	ppm	15	6	4	---
Sodium	ppm	2	<1	4	---
Potassium	ppm	0	3	2	---

Diagnosis

Check seals and/or filters for points of contaminant entry. 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. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of silt (particulates < 14 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	7	13	10	---
Copper	ppm	2	5	4	---
Lead	ppm	0	1	0	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	<1	0	<1	---
Chromium	ppm	<1	2	2	---
Molybdenum	ppm	<1	1	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	69	85	80	---
Magnesium	ppm	2	10	10	---
Zinc	ppm	421	446	428	---
Phosphorus	ppm	343	340	333	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	0	---

Depot: VOLVO0093
Unique No: 10634138
Signed: Wes Davis
Report Date: 07 Sep 2023

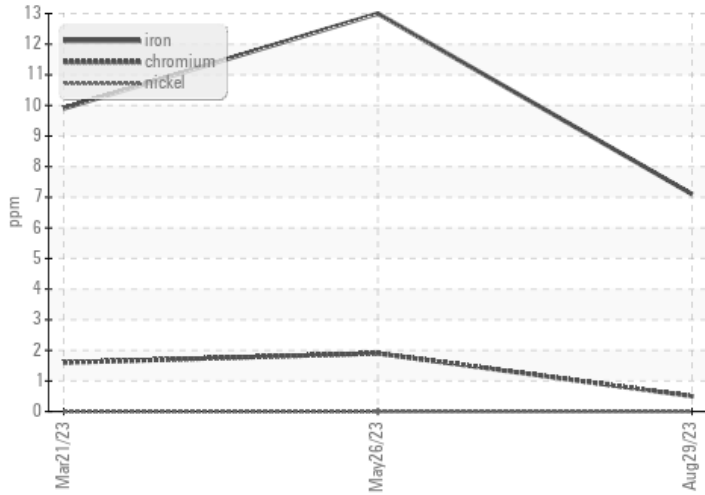


CONSTRUCTION EQUIPMENT

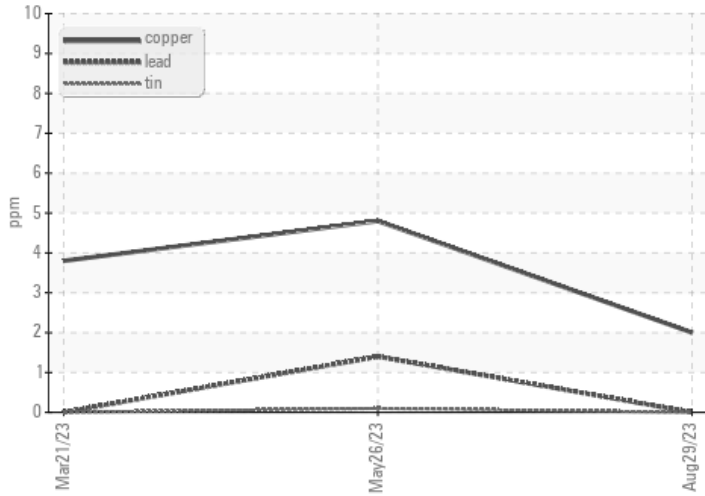


GRAPHS

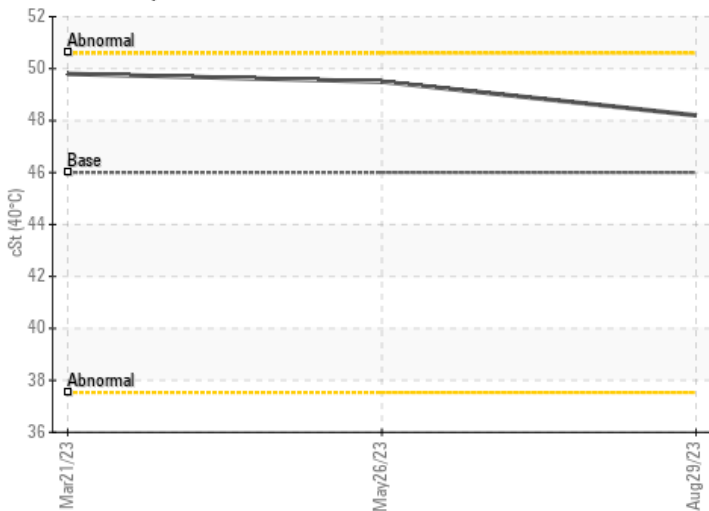
Ferrous Alloys



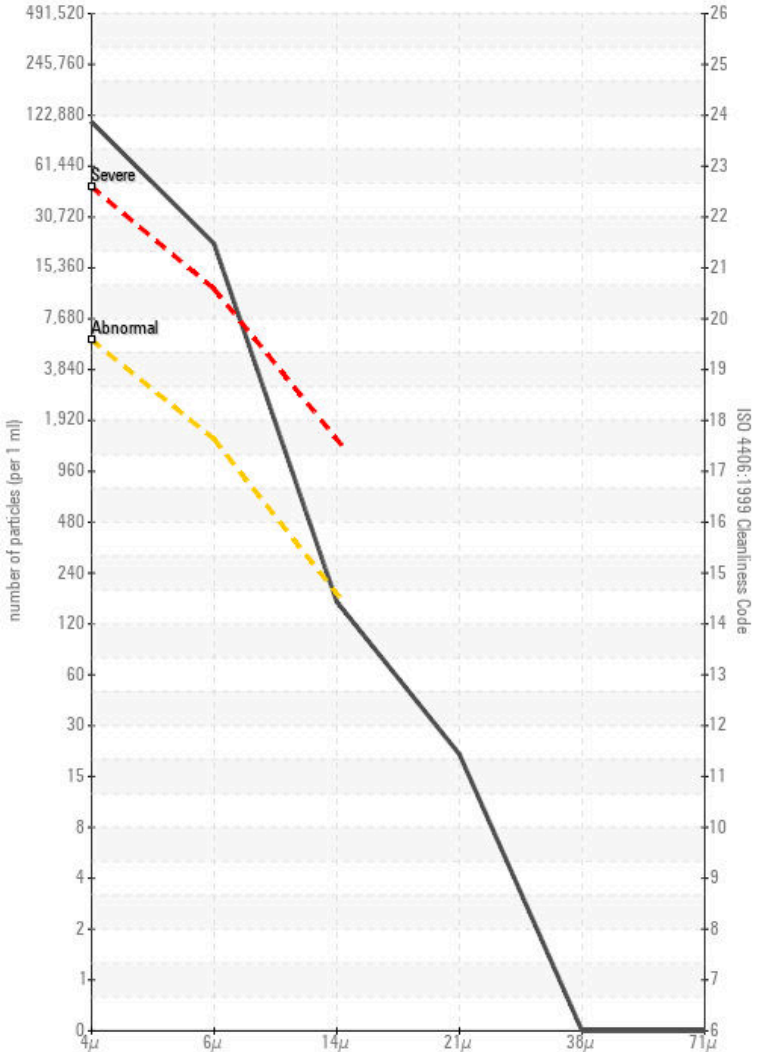
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

