



CONSTRUCTION EQUIPMENT

REGION OF WATERLOO 406065 VOLVO L120H 633154 - HYDRAULIC SYSTEM



Sample No: VCP448162
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 406065



SAMPLE INFORMATION

Sample Number	VCP448162	VCP380365	VCP391791	VCP353215
Sample Date	29 May 2024	11 Jan 2024	30 Aug 2023	12 Apr 2023
Machine Hours	5042	4039	3000	2000
Oil Hours	1000	4000	3000	2000
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	SEVERE	SEVERE	SEVERE	SEVERE

Strongco Equipment

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Breslau, ON
CA N0B 1M0
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OIL CONDITION

Visc @ 40°C	cSt	▲ 28.3	▲ 17.9	▲ 18.1	▲ 17.6
Visc @ 100°C	cSt	---	---	---	▲ 5.5
Viscosity Index (VI)	Scale	---	---	---	■ 291

CONTAMINATION

Water	%	NEG	■ 0.003	NEG	NEG
Particles >4µm		■ 4500	● 5262	■ 2673	■ 2197
Particles >6µm		● 1398	■ 807	■ 268	■ 59
Particles >14µm		■ 105	■ 56	■ 17	■ 8
ISO 4406:1999 (c)		19/18/14	20/17/13	19/15/11	18/13/10
Silicon	ppm	■ <1	■ 4	■ 4	■ 4
Sodium	ppm	■ 3	■ 5	■ 4	■ 4
Potassium	ppm	■ <1	■ 2	■ 1	■ <1

WEAR METALS

Iron	ppm	■ 9	■ 19	■ 15	■ 14
Copper	ppm	■ 3	■ 6	■ 5	■ 5
Lead	ppm	■ 0	■ 1	■ 1	■ 1
Tin	ppm	■ 0	■ <1	■ 0	■ <1
Aluminum	ppm	■ <1	■ 1	■ <1	■ <1
Chromium	ppm	■ 5	■ 10	■ 7	■ 7
Molybdenum	ppm	■ 0	■ 0	■ 0	■ <1
Nickel	ppm	■ 0	■ <1	■ <1	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 0	■ 0	■ 0	■ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	■ 80	■ 57	■ 54	■ 55
Magnesium	ppm	■ 2	■ 2	■ 2	■ 2
Zinc	ppm	■ 443	■ 450	■ 456	■ 458
Phosphorus	ppm	■ 363	■ 354	■ 376	■ 385
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ <1	■ <1	■ <1	■ <1

Diagnosis

We advise that you check all areas where contaminants can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

Depot: CASKIT
Unique No: 5789082
Signed: Kevin Marson
Report Date: 06 Jun 2024

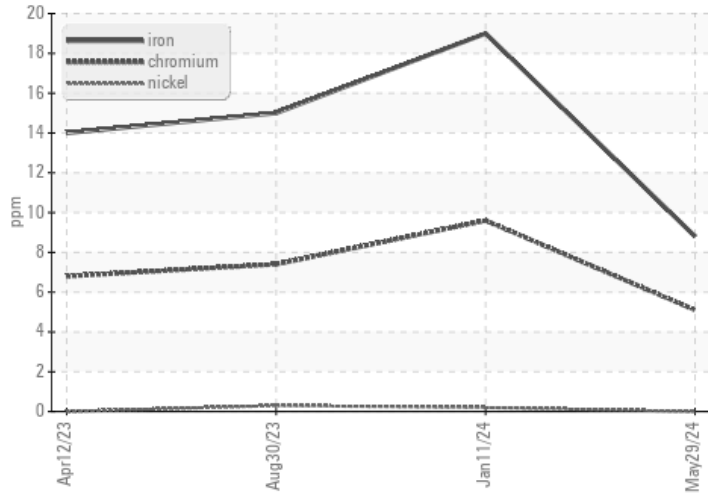


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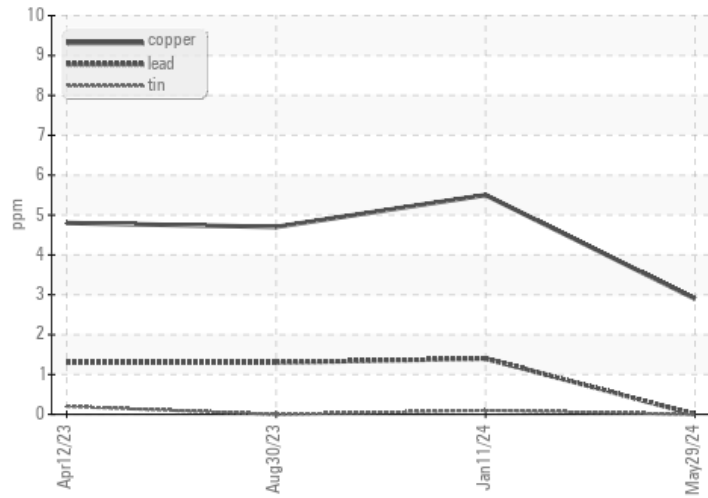


GRAPHS

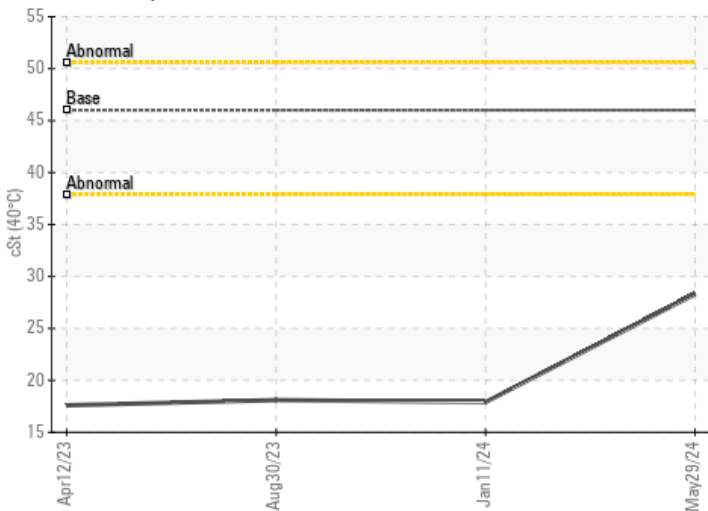
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

