



CONSTRUCTION EQUIPMENT

VOLVO L180H I153 - HYDRAULIC SYSTEM



Sample No: VCP0007960

Oil Type: AW HYDRAULIC OIL ISO 32

Job No:



SAMPLE INFORMATION

Sample Number	VCP0007960	VCP0002513	VCP362462	---
Sample Date	28 Nov 2023	26 Jul 2022	04 Apr 2022	---
Machine Hours	8885	2590	2590	---
Oil Hours	8885	2590	2590	---
Oil Changed	N/A	N/A	Not Changd	---
Sample Status	ATTENTION	ABNORMAL	ATTENTION	---

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 8750 PHILIPS HWY
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 F: (904)737-1260

OIL CONDITION

Visc @ 40°C	cSt	▲ 46.8	▲ 42.26	■ 36.5	---
Acid Number (AN)	mg KOH/g	■ 0.47	■ 0.44	■ 0.32	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		▲ 6869	▲ 13034	▲ 6354	---
Particles >6µm		■ 1064	▲ 2265	■ 931	---
Particles >14µm		■ 46	▲ 220	■ 124	---
ISO 4406:1999 (c)		20/17/13	21/18/15	20/17/14	---
Silicon	ppm	■ 3	■ 1	■ 0	---
Sodium	ppm	■ 0	■ 1	■ <1	---
Potassium	ppm	■ 1	■ 0	■ 0	---

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. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

WEAR METALS

Iron	ppm	■ <1	■ <1	■ 5	---
Copper	ppm	■ <1	■ 1	■ 2	---
Lead	ppm	■ 0	■ 0	■ <1	---
Tin	ppm	■ 0	■ 0	■ <1	---
Aluminum	ppm	■ 1	■ 0	■ 0	---
Chromium	ppm	■ 0	■ 0	■ <1	---
Molybdenum	ppm	■ 1	■ 0	■ <1	---
Nickel	ppm	■ 0	■ 0	■ <1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	■ 0	■ 0	■ <1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	■ 178	■ 127	■ 31	---
Magnesium	ppm	■ 7	■ 0	■ <1	---
Zinc	ppm	■ 527	■ 416	■ 334	---
Phosphorus	ppm	■ 405	■ 321	■ 270	---
Barium	ppm	■ 0	■ <1	■ 0	---
Boron	ppm	■ 0	■ 0	■ 1	---

Depot: VOLVO0092
Unique No: 10765999
Signed: Don Baldrige
Report Date: 04 Dec 2023

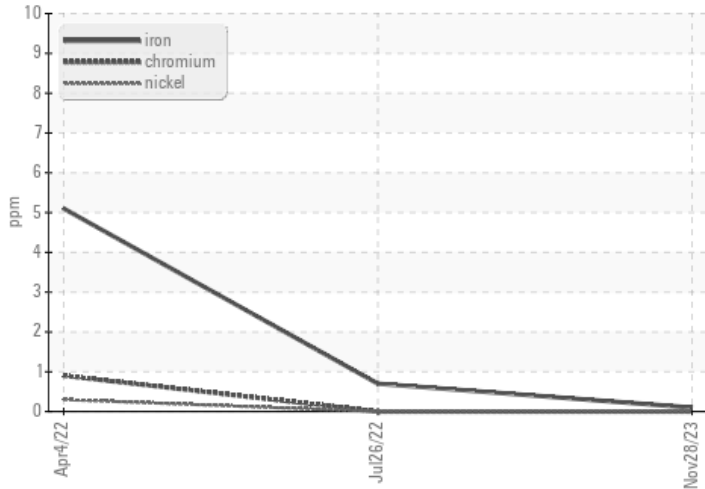


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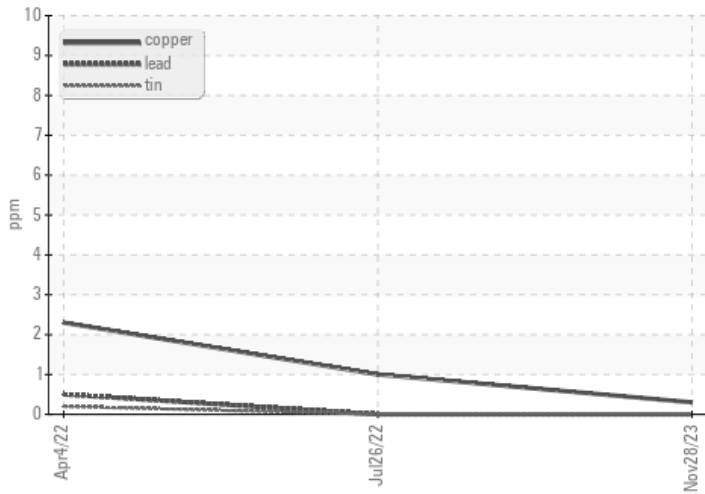


GRAPHS

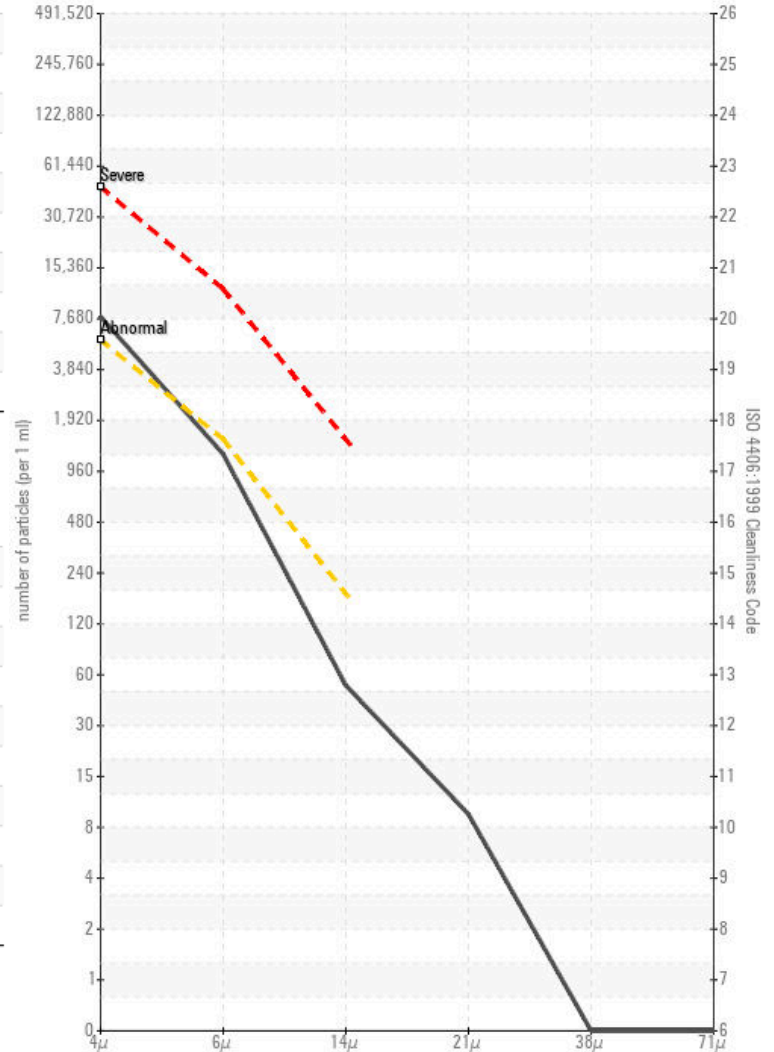
Ferrous Alloys



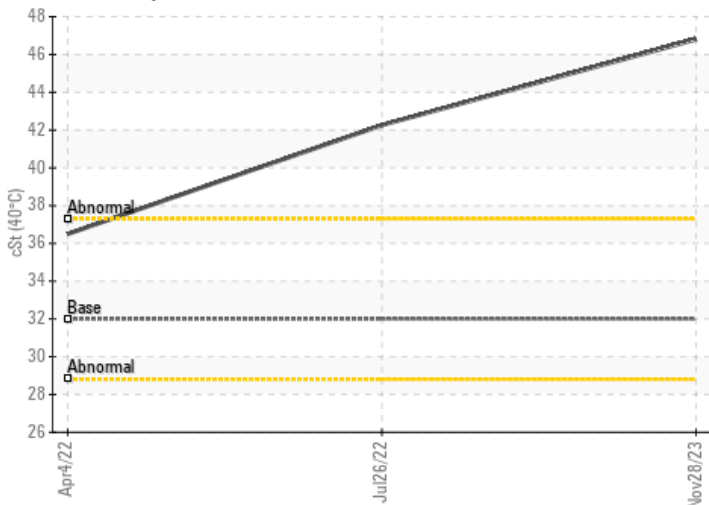
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number

