



CONSTRUCTION EQUIPMENT

VOLVO L180H 1156 - HYDRAULIC SYSTEM



Sample No: VCP0007964

Oil Type: AW HYDRAULIC OIL ISO 32

Job No:



SAMPLE INFORMATION

Sample Number	VCP0007964	VCP0002557	VCP362451	---
Sample Date	28 Nov 2023	26 Jul 2022	04 Apr 2022	---
Machine Hours	10299	4216	2852	---
Oil Hours	10299	4216	2852	---
Oil Changed	N/A	N/A	Not Changd	---
Sample Status	ATTENTION	ABNORMAL	ATTENTION	---

ALTA EQUIPMENT COMPANY

8750 PHILIPS HWY

JACKSONVILLE, FL

US 32256

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OIL CONDITION

Visc @ 40°C	cSt	▲ 50.5	■ 25.76	■ 36.4	---
Acid Number (AN)	mg KOH/g	■ 0.54	■ 0.38	■ 0.31	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		▲ 6035	▲ 79050	▲ 5374	---
Particles >6µm		■ 1201	■ 991	■ 522	---
Particles >14µm		■ 62	■ 14	■ 70	---
ISO 4406:1999 (c)		20/17/13	23/17/11	20/16/13	---
Silicon	ppm	■ 2	■ 1	■ 0	---
Sodium	ppm	■ 0	■ 3	■ <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	■ 0	■ 14	■ 5	---
Copper	ppm	■ 0	■ 8	■ 2	---
Lead	ppm	■ 0	■ 0	■ 0	---
Tin	ppm	■ 0	■ <1	■ <1	---
Aluminum	ppm	■ 1	■ <1	■ 0	---
Chromium	ppm	■ 0	■ 2	■ <1	---
Molybdenum	ppm	■ <1	■ 0	■ <1	---
Nickel	ppm	■ 0	■ <1	■ <1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	■ 0	■ <1	■ <1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	■ 303	■ 39	■ 30	---
Magnesium	ppm	■ 3	■ <1	■ <1	---
Zinc	ppm	■ 478	■ 282	■ 332	---
Phosphorus	ppm	■ 383	■ 224	■ 269	---
Barium	ppm	■ 0	■ <1	■ 0	---
Boron	ppm	■ 0	■ 0	■ 1	---

Depot: VOLVO0092

Unique No: 10766001

Signed: Don Baldrige

Report Date: 04 Dec 2023

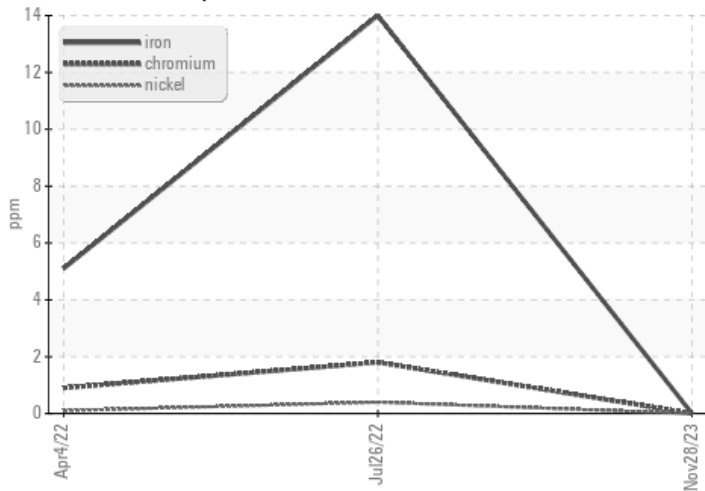


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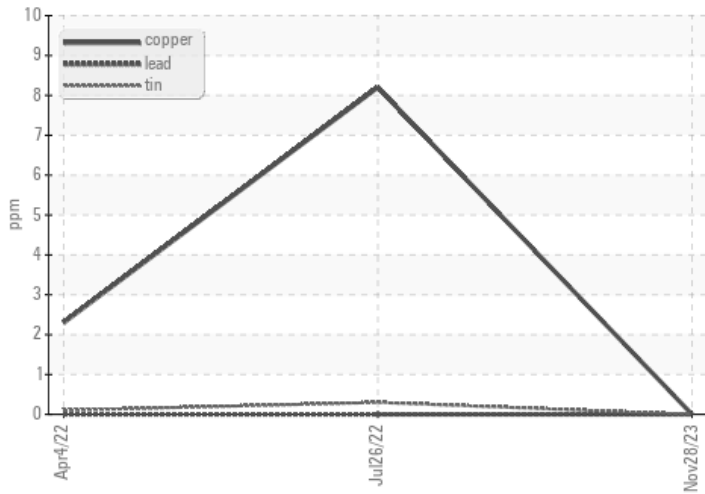


GRAPHS

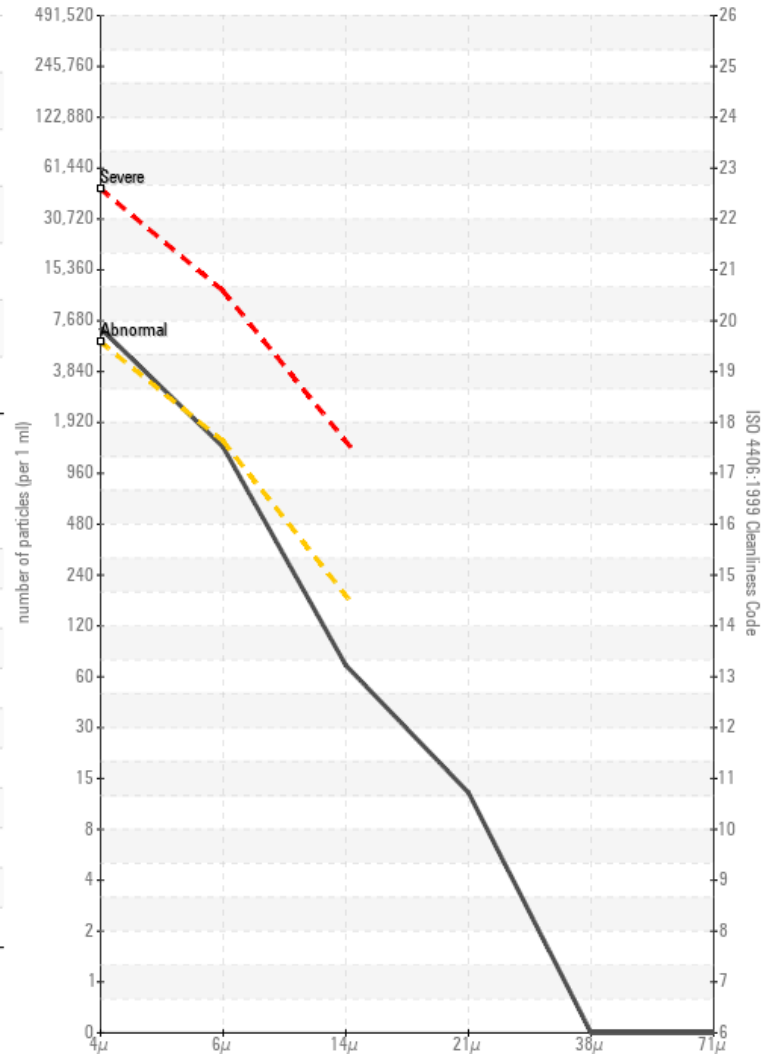
Ferrous Alloys



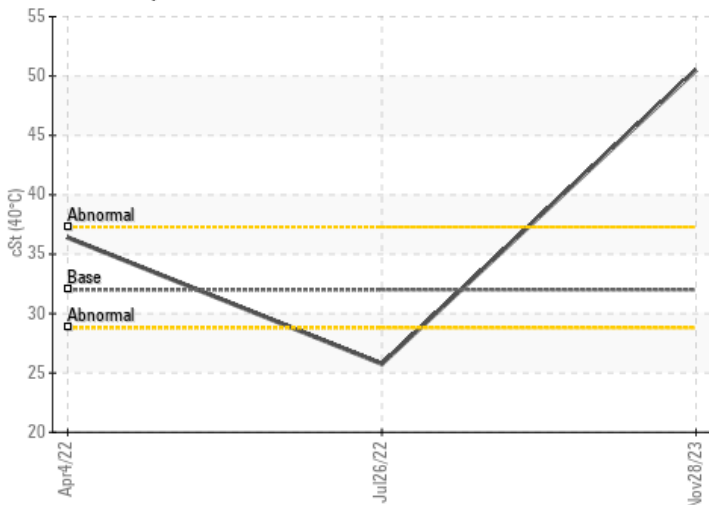
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number

