



CONSTRUCTION EQUIPMENT

386577 VOLVO EC300E 312753 - HYDRAULIC SYSTEM



Sample No: VCP394126
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 386577



SAMPLE INFORMATION

Sample Number	VCP394126	VCP334258	VCP273626	---
Sample Date	02 Dec 2023	28 Aug 2022	01 Nov 2020	---
Machine Hours	9900	8300	4000	---
Oil Hours	4000	4000	4000	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	SEVERE	SEVERE	ATTENTION	---

Strongco Equipment

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 Breslau, ON
 CA N0B 1M0
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OIL CONDITION

Visc @ 40°C	cSt	▲ 36.1	■ 48.4	■ 43.0	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		▲ 60011	■ 343	■ 2249	---
Particles >6µm		▲ 19086	■ 39	■ 357	---
Particles >14µm		■ 1645	■ 6	■ 22	---
ISO 4406:1999 (c)		23/21/18	16/12/10	18/16/12	---
Silicon	ppm	■ 2	■ 2	■ 3	---
Sodium	ppm	■ 1	■ 1	■ 2	---
Potassium	ppm	■ 0	■ <1	■ 1	---

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Chromium ppm levels are severe. Ring wear is indicated. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR METALS

Iron	ppm	■ 6	■ 9	■ 5	---
Copper	ppm	■ 4	■ 8	■ 18	---
Lead	ppm	■ <1	■ <1	■ <1	---
Tin	ppm	■ 0	0	0	---
Aluminum	ppm	■ <1	■ <1	■ <1	---
Chromium	ppm	■ 28	■ 31	▲ 11	---
Molybdenum	ppm	■ 0	■ 0	■ <1	---
Nickel	ppm	■ 0	■ 0	■ <1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	<1	0	<1	---
Manganese	ppm	■ 0	■ <1	■ <1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	■ 65	■ 71	■ 237	---
Magnesium	ppm	■ 2	■ 1	■ 2	---
Zinc	ppm	■ 423	■ 390	■ 625	---
Phosphorus	ppm	■ 336	■ 371	■ 501	---
Barium	ppm	■ <1	■ 0	■ <1	---
Boron	ppm	■ <1	■ <1	■ <1	---

Depot: CASKIT
Unique No: 5695954
Signed: Kevin Marson
Report Date: 14 Dec 2023

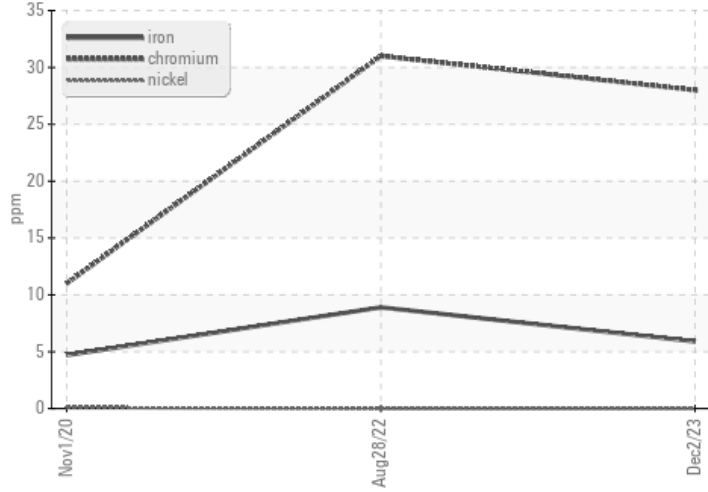


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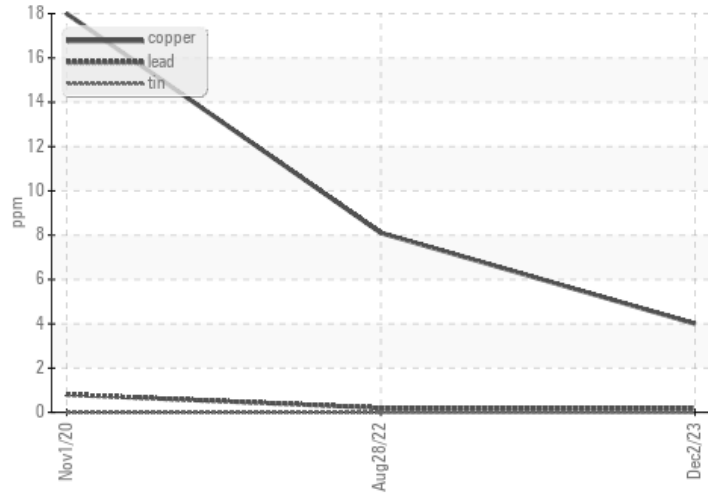


GRAPHS

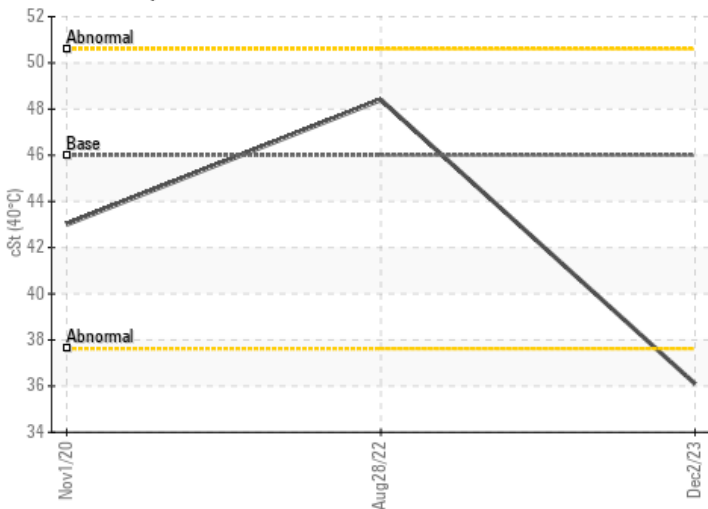
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

