



CONSTRUCTION EQUIPMENT

SWA355023-2 VOLVO DD140C 290076 - HYDRAULIC SYSTEM



Sample No: VCP389546
Oil Type: NOT GIVEN
Job No: SWA355023-2



SAMPLE INFORMATION

Sample Number	VCP389546	VCP404849	---	---
Sample Date	06 Sep 2023	21 Apr 2023	---	---
Machine Hours	847	443	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	ABNORMAL	---	---

ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
 Contact: JIM STRIGLE
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 T: (315)437-2611
 F: (315)434-9471



OIL CONDITION

Visc @ 40°C	cSt	█ 44.2	█ 44.5	---	---
Acid Number (AN)	mg KOH/g	█ 0.06	█ 0.10	---	---



CONTAMINATION

Particles >4µm		█ 2889	▲ 29373	---	---
Particles >6µm		█ 271	▲ 1876	---	---
Particles >14µm		█ 8	█ 33	---	---
ISO 4406:1999 (c)		19/15/10	22/18/12	---	---
Silicon	ppm	█ <1	█ <1	---	---
Sodium	ppm	█ 2	█ 0	---	---
Potassium	ppm	█ <1	█ 2	---	---

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	█ 2	█ 3	---	---
Copper	ppm	█ 7	█ 8	---	---
Lead	ppm	█ 2	█ 2	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ <1	█ 0	---	---
Chromium	ppm	█ 0	█ 0	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	111	129	---	---
Magnesium	ppm	0	<1	---	---
Zinc	ppm	32	46	---	---
Phosphorus	ppm	449	429	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Depot: VOLV00142
Unique No: 10643166
Signed: Wes Davis
Report Date: 12 Sep 2023

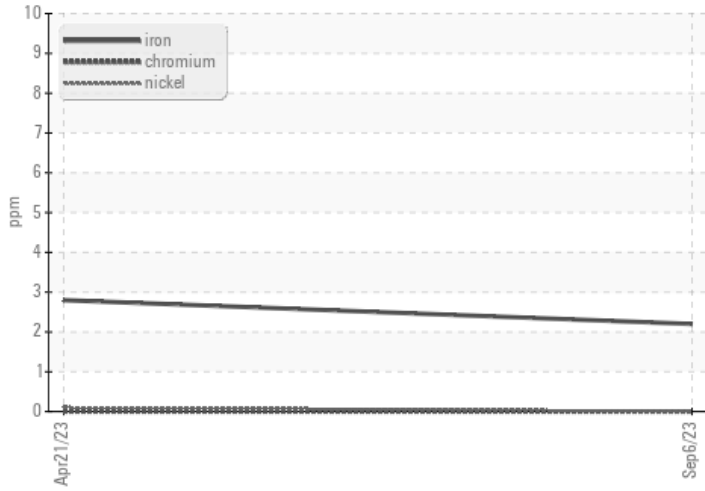


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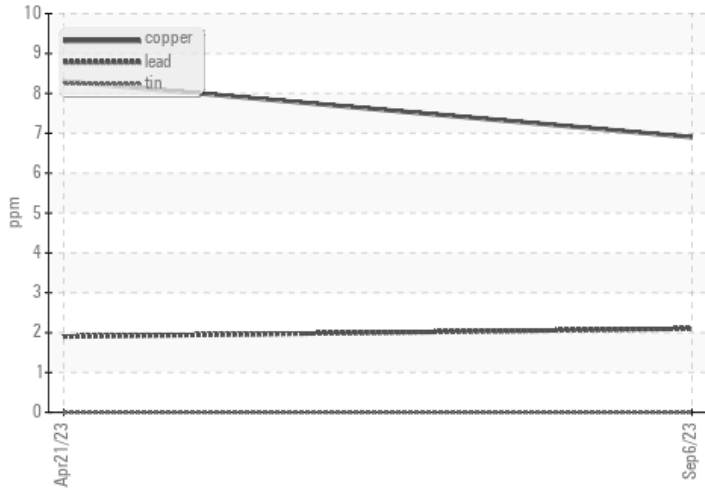


GRAPHS

Ferrous Alloys



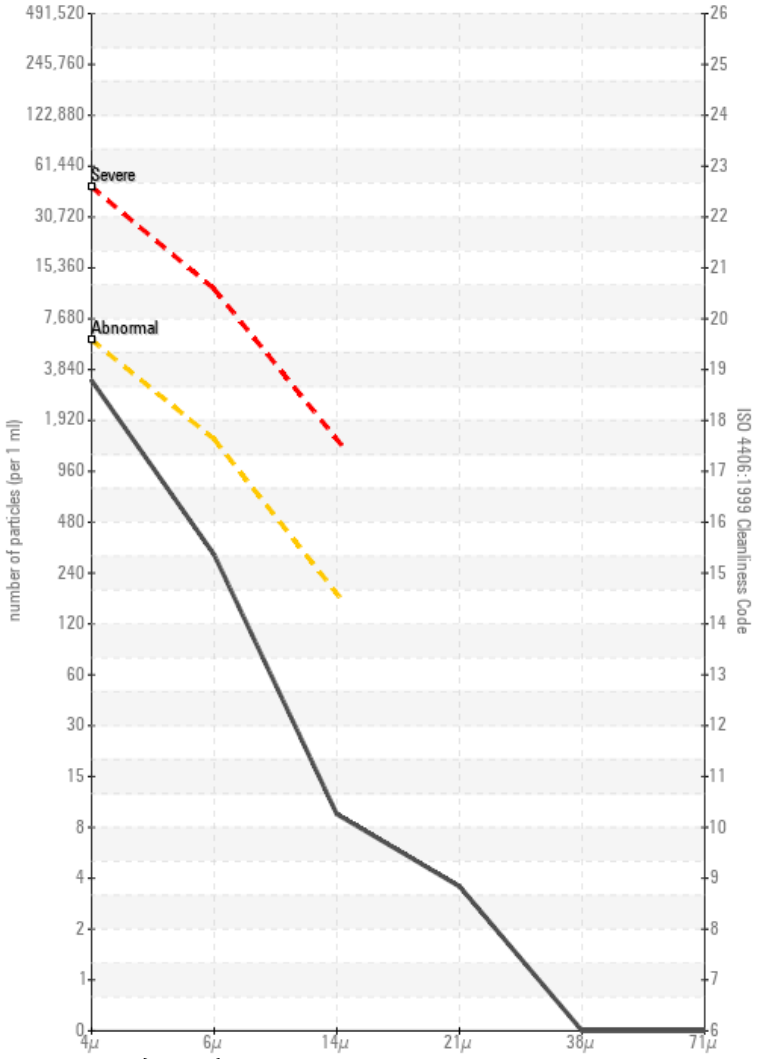
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

