



CONSTRUCTION EQUIPMENT

SW1023051 VOLVO EC550EL 310146 - HYDRAULIC SYSTEM



Sample No: VCP406618

Oil Type: NOT GIVEN

Job No: SW1023051



SAMPLE INFORMATION

Sample Number	VCP406618	---	---	---
Sample Date	18 Aug 2023	---	---	---
Machine Hours	178	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

ARNOLD MACHINERY COMPANY

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US 85040

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T:
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OIL CONDITION

Visc @ 40°C	cSt	█ 42.6	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.53	---	---	---



CONTAMINATION

Particles >4µm		█ 771	---	---	---
Particles >6µm		█ 149	---	---	---
Particles >14µm		█ 43	---	---	---
ISO 4406:1999 (c)		17/14/13	---	---	---
Silicon	ppm	█ 2	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 1	---	---	---

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 10W AW Hydraulic Oil. Please confirm the oil type and grade, and specify the brand 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	█ <1	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	101	---	---	---
Magnesium	ppm	<1	---	---	---
Zinc	ppm	515	---	---	---
Phosphorus	ppm	383	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	0	---	---	---

Depot: VOLVO6174

Unique No: 10620124

Signed: Wes Davis

Report Date: 28 Aug 2023

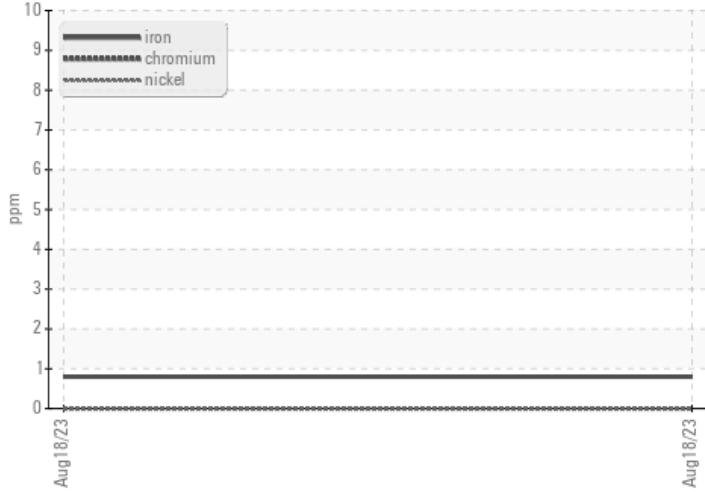


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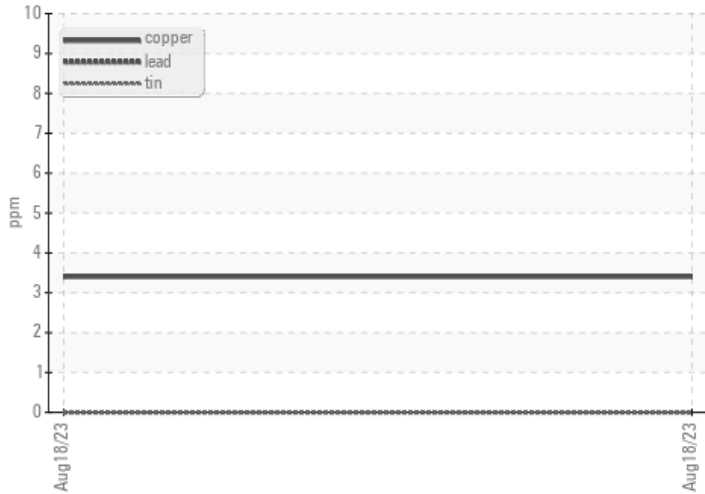


VOLVO GRAPHS

Ferrous Alloys



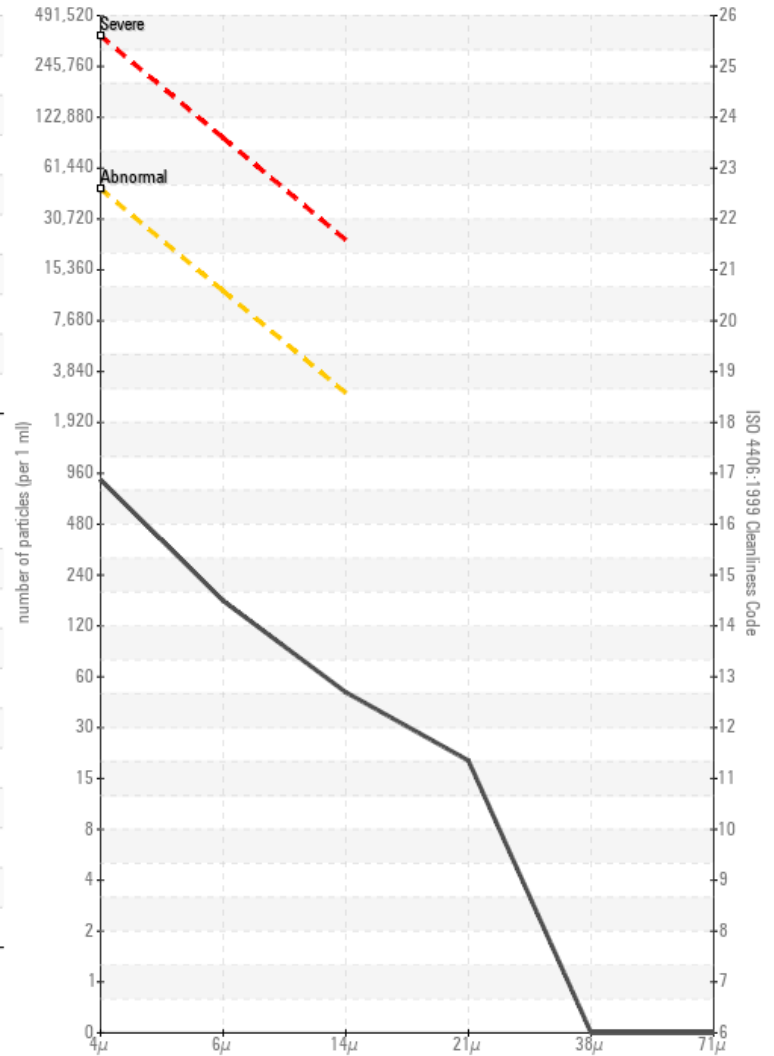
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

