CONSTRUCTION EQUIPMENT
CHARAH VOLVO L110H 632156 - HYDRAULIC SYSTEM

Sample No: VCP435551
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: CHARAH

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
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SAMPLE INFORMATION

Sample Number		**VCP435551**	---	---	---
Sample Date		**19 Dec 2023**	---	---	---
Machine Hours		**2948**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**N/A**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	▲ **42.9**	---	---	---
Acid Number (AN)	mg KOH/g	■ **0.28**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Particles >4µm		**18002**	---	---	---
Particles >6µm		▲ **4733**	---	---	---
Particles >14µm		▲ **301**	---	---	---
ISO 4406:1999 (c)		**21/19/15**	---	---	---
Silicon	ppm	■ **2**	---	---	---
Sodium	ppm	■ **0**	---	---	---
Potassium	ppm	■ **2**	---	---	---

WEAR METALS

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

ADDITIVES

Calcium	ppm	■ **117**	---	---	---
Magnesium	ppm	■ **5**	---	---	---
Zinc	ppm	■ **443**	---	---	---
Phosphorus	ppm	■ **370**	---	---	---
Barium	ppm	■ **0**	---	---	---
Boron	ppm	■ **<1**	---	---	---

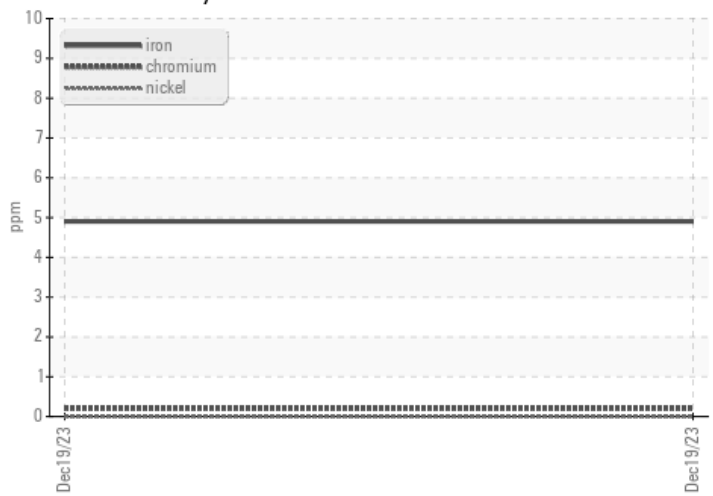
Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

Depot: VOLVO0093
Unique No: 10829416
Signed: Don Baldridge
Report Date: 12 Jan 2024

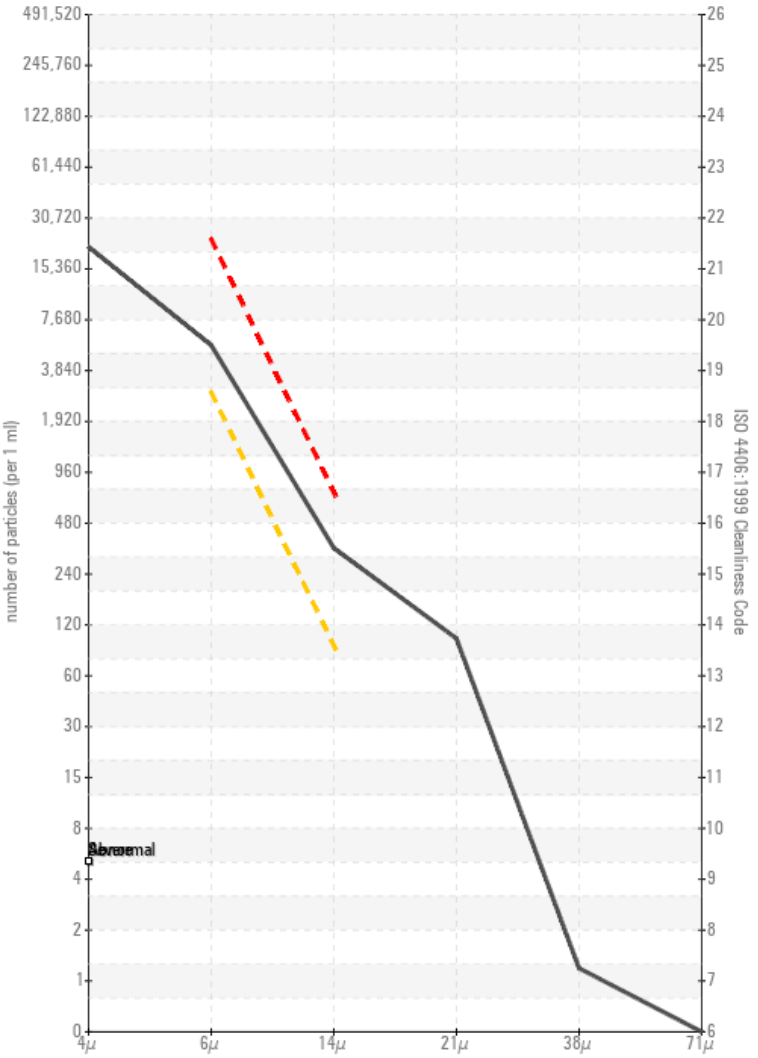
GRAPHS

Ferrous Alloys

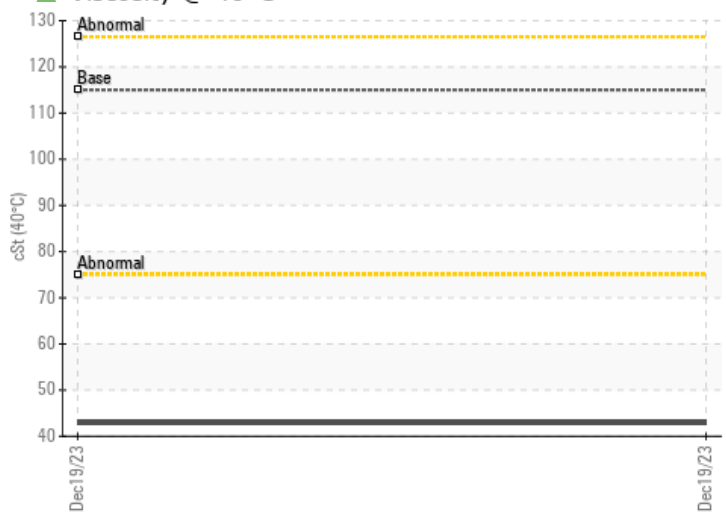


Non-ferrous Metals

Particle Count



Viscosity @ 40°C



Acid Number