CONSTRUCTION EQUIPMENT

SPM620181 LAFARGE HO VOLVO L220H 3536 - HYDRAULIC SYSTEM

Sample No: VCP415061
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM620181 LAFARGE HO

ALTA EQUIPMENT CO - ORLAND PARK
5000 INDUSTRIAL HWY
GARY, IN
US 46406
Contact: DAVE ENG
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T: (312)350-2560
F:

SAMPLE INFORMATION

Sample Number		**VCP415061**	---	---	---
Sample Date		**19 Oct 2023**	---	---	---
Machine Hours		**542**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**SEVERE**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	▲ **64.8**	---	---	---
Acid Number (AN)	mg KOH/g	**1.11**	---	---	---

CONTAMINATION

Particles >4µm		**5789**	---	---	---
Particles >6µm		**1385**	---	---	---
Particles >14µm		**79**	---	---	---
ISO 4406:1999 (c)		**20/18/13**	---	---	---
Silicon	ppm	**2**	---	---	---
Sodium	ppm	**4**	---	---	---
Potassium	ppm	**2**	---	---	---

WEAR METALS

Iron	ppm	**<1**	---	---	---
Copper	ppm	**3**	---	---	---
Lead	ppm	**2**	---	---	---
Tin	ppm	⬢ **280**	---	---	---
Aluminum	ppm	**<1**	---	---	---
Chromium	ppm	**<1**	---	---	---
Molybdenum	ppm	**0**	---	---	---
Nickel	ppm	**<1**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**3**	---	---	---
Magnesium	ppm	**16**	---	---	---
Zinc	ppm	**66**	---	---	---
Phosphorus	ppm	**194**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**0**	---	---	---

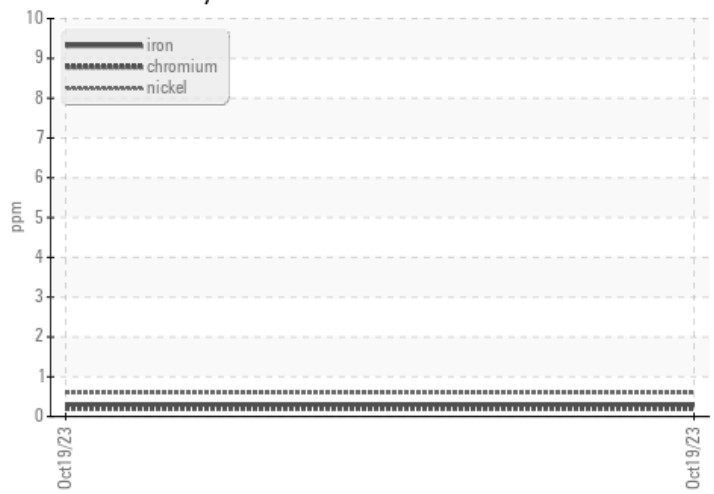
Diagnosis

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.The tin level is severe. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

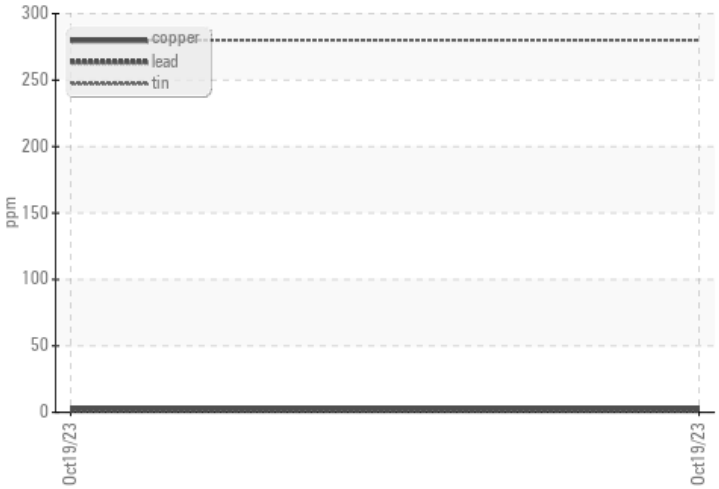
Depot: VOLVO8885
Unique No: 10712952
Signed: Jonathan Hester
Report Date: 01 Nov 2023

GRAPHS

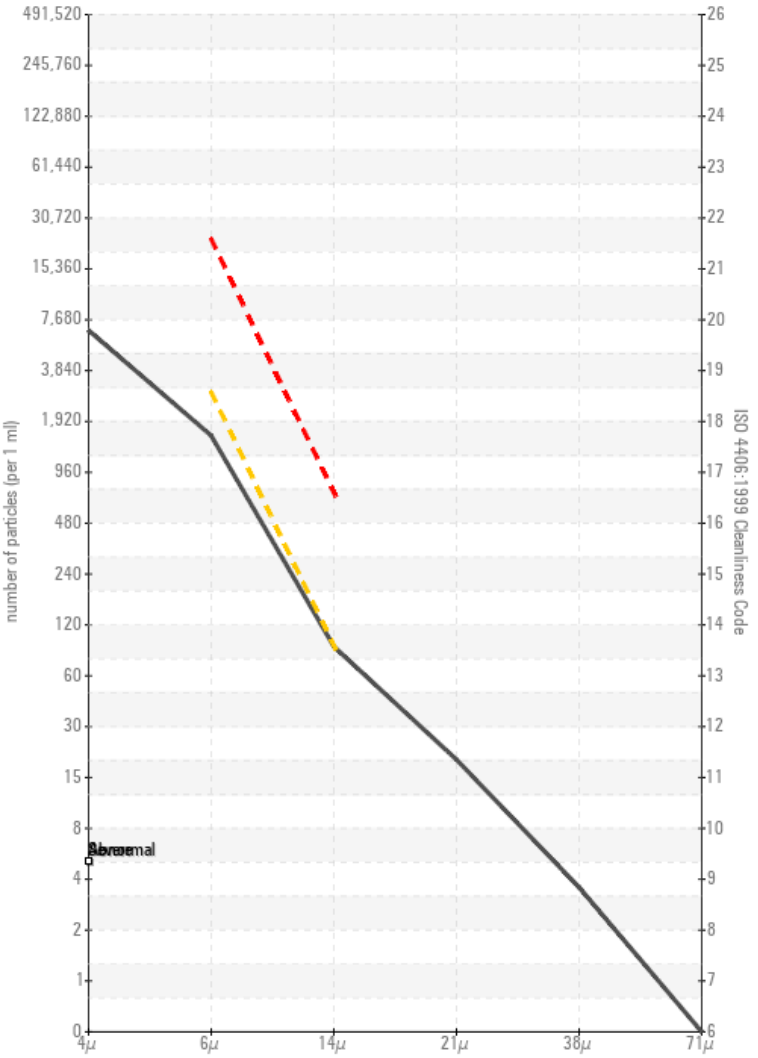
Ferrous Alloys



Non-ferrous Metals



Particle Count



Viscosity @ 40°C

Acid Number