



CONSTRUCTION EQUIPMENT

SPM581191 VOLVO L220H 3399 - HYDRAULIC SYSTEM



Sample No: VCP409219
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM581191



SAMPLE INFORMATION

Sample Number	VCP409219	---	---	---
Sample Date	27 Jul 2023	---	---	---
Machine Hours	1035	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

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

OIL CONDITION

Visc @ 40°C	cSt	█ 42.7	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.31	---	---	---

CONTAMINATION

Particles >4µm		█ 15960	---	---	---
Particles >6µm		▲ 3904	---	---	---
Particles >14µm		▲ 222	---	---	---
ISO 4406:1999 (c)		█ 21/19/15	---	---	---
Silicon	ppm	█ 1	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 0	---	---	---

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

WEAR METALS

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

ADDITIVES

Calcium	ppm	█ 53	---	---	---
Magnesium	ppm	█ 0	---	---	---
Zinc	ppm	█ 435	---	---	---
Phosphorus	ppm	█ 345	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: VOLVO8885
Unique No: 10602072
Signed: Wes Davis
Report Date: 14 Aug 2023

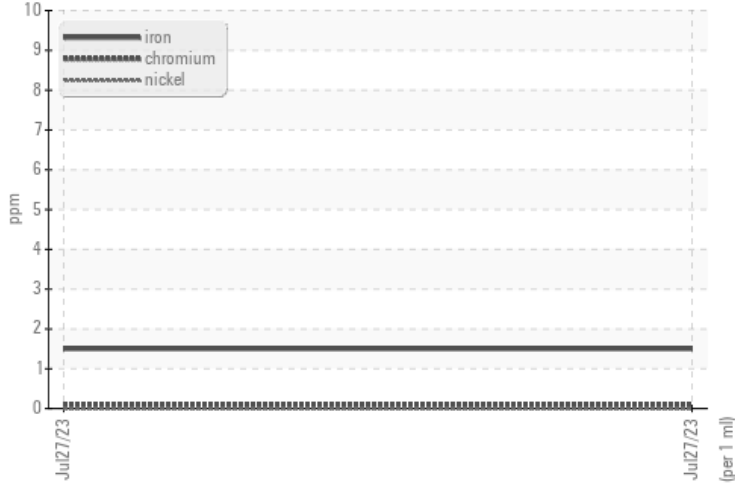


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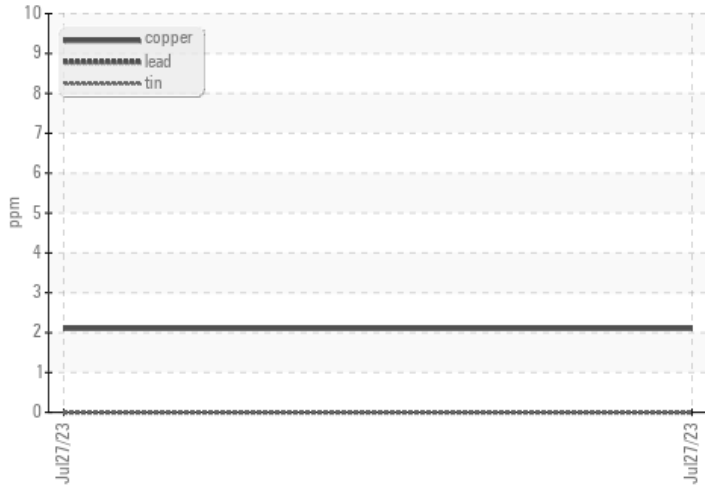


GRAPHS

Ferrous Alloys



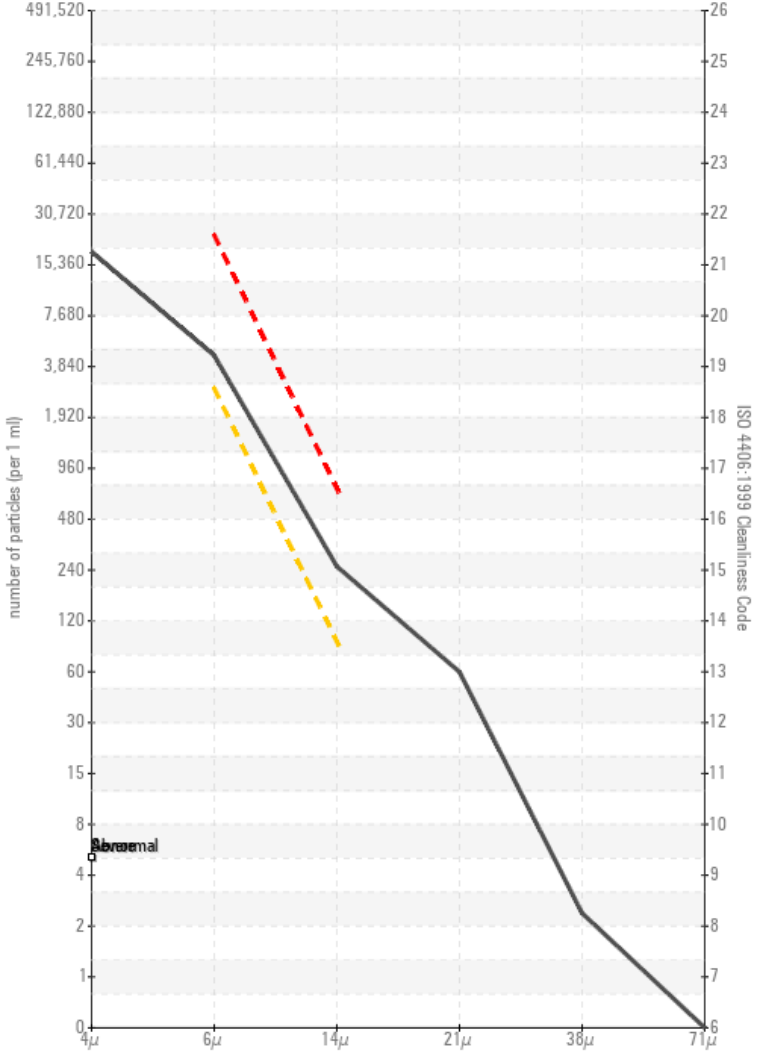
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

