



CONSTRUCTION EQUIPMENT

621307 VOLVO L220H 2061 - HYDRAULIC SYSTEM



Sample No: VCP442772
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 621307



SAMPLE INFORMATION

Sample Number	VCP442772	---	---	---
Sample Date	21 Nov 2023	---	---	---
Machine Hours	16027	---	---	---
Oil Hours	4000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

FERROUS PROCESSING AND TRADING
 3400 E LAFAYETTE
 DETROIT, MI
 US 48207
 Contact: KEITH HALL
 keith.hall@fpt1.com
 T:
 F:

OIL CONDITION

Visc @ 40°C	cSt	■ 43.8	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.29	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 19821	---	---	---
Particles >6µm		▲ 5521	---	---	---
Particles >14µm		▲ 344	---	---	---
ISO 4406:1999 (c)		21/20/16	---	---	---
Silicon	ppm	■ 2	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ 2	---	---	---

Diagnosis
 Oil and filter change at the time of sampling has been noted. 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	■ 6	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 4	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	■ 25	---	---	---
Magnesium	ppm	■ 3	---	---	---
Zinc	ppm	■ 390	---	---	---
Phosphorus	ppm	■ 324	---	---	---
Barium	ppm	■ 4	---	---	---
Boron	ppm	■ 0	---	---	---

Depot: FERDET
Unique No: 10765011
Signed: Doug Bogart
Report Date: 11 Dec 2023

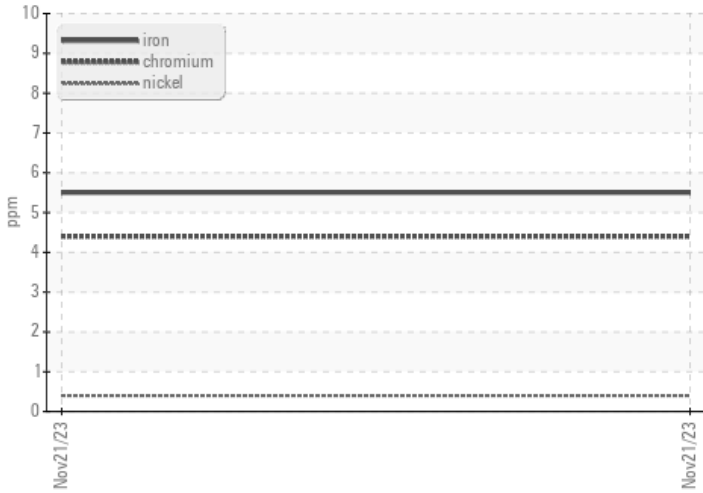


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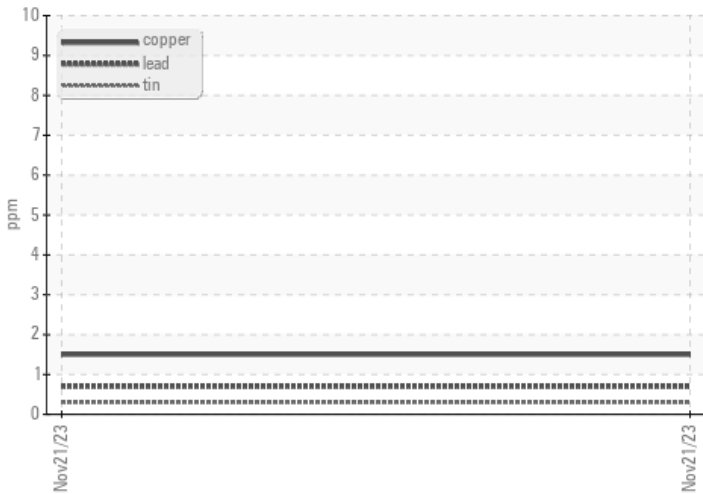


GRAPHS

Ferrous Alloys



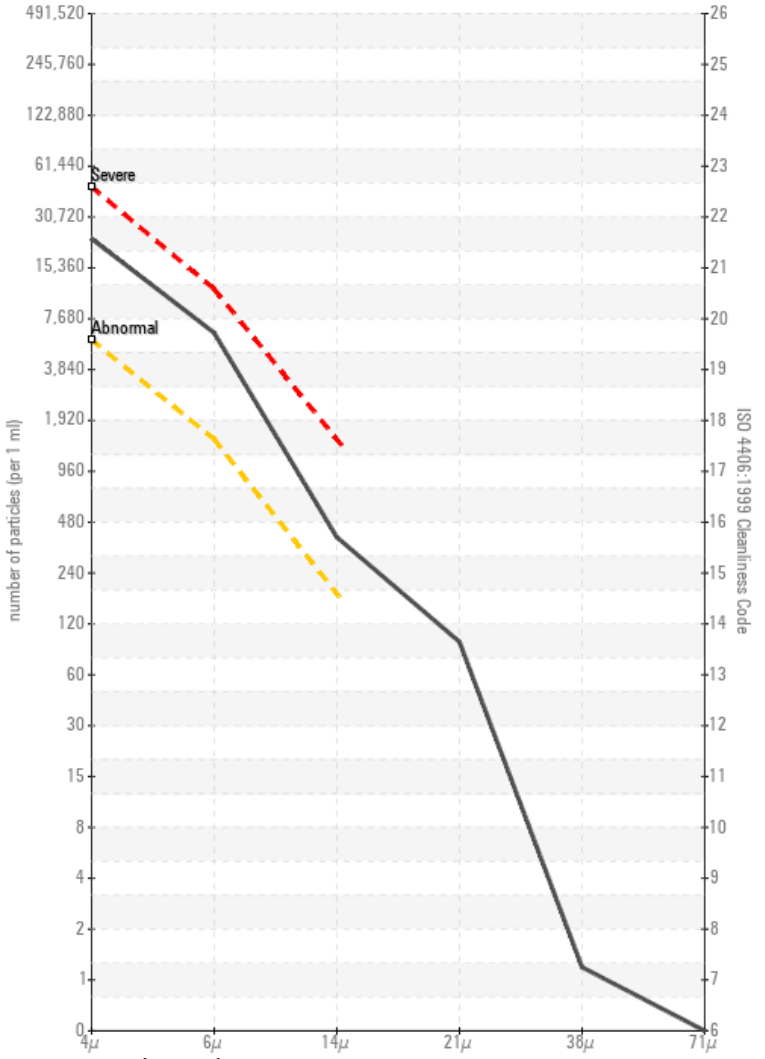
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

