



CONSTRUCTION EQUIPMENT

SPM540534 MURRAY LAK TAKEUCHI TL12R2 412105706 - HYDRAULIC SYSTEM



Sample No: VCP411322
Oil Type: DIESEL ENGINE OIL SAE 10W30
Job No: SPM540534 MURRAY LAK



SAMPLE INFORMATION

Sample Number	VCP411322	---	---	---
Sample Date	26 Apr 2023	---	---	---
Machine Hours	65	---	---	---
Oil Hours	65	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	■ 56.0	---	---	---
Acid Number (AN)	mg KOH/g	■ 1.07	---	---	---



CONTAMINATION

Particles >4µm		▲ 110536	---	---	---
Particles >6µm		▲ 15387	---	---	---
Particles >14µm		■ 16	---	---	---
ISO 4406:1999 (c)		24/21/11	---	---	---
Silicon	ppm	■ 8	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ 0	---	---	---

Diagnosis

No corrective action is recommended at this time. The 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 silt (particulates < 14 microns in size) 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	■ 3	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 13	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 3416	---	---	---
Magnesium	ppm	■ 0	---	---	---
Zinc	ppm	■ 659	---	---	---
Phosphorus	ppm	■ 553	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 18	---	---	---

Depot: VOLVO5023
Unique No: 10455326
Signed: Doug Bogart
Report Date: 04 May 2023

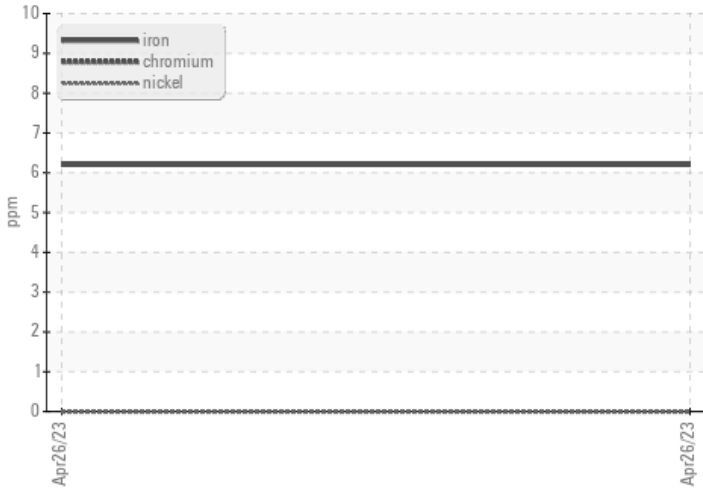


CONSTRUCTION EQUIPMENT

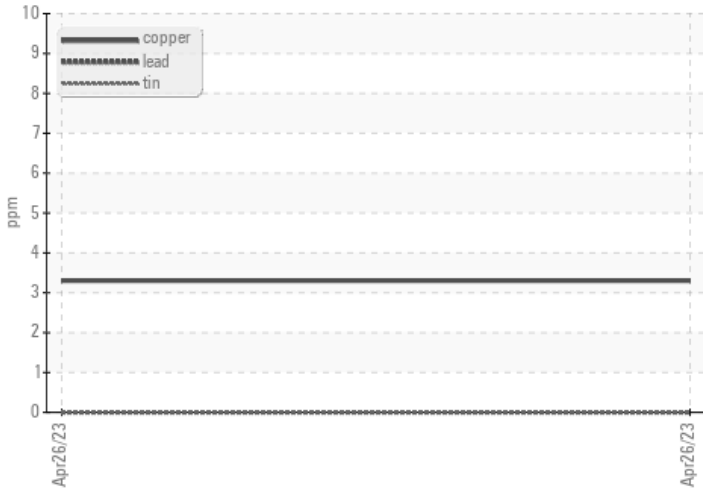


GRAPHS

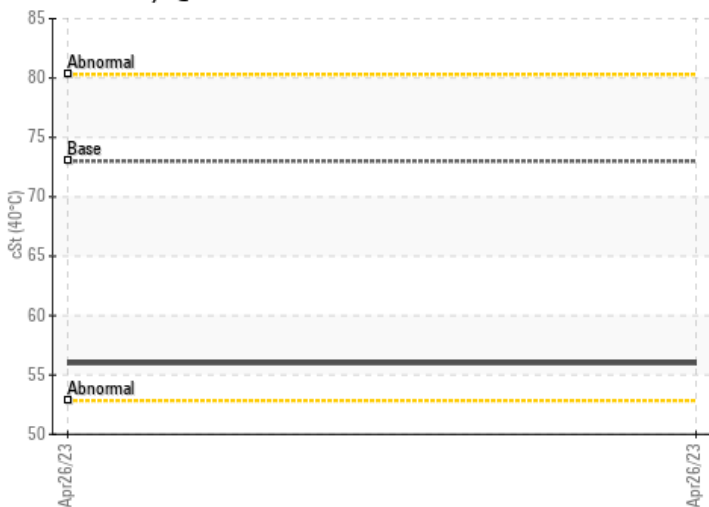
Ferrous Alloys



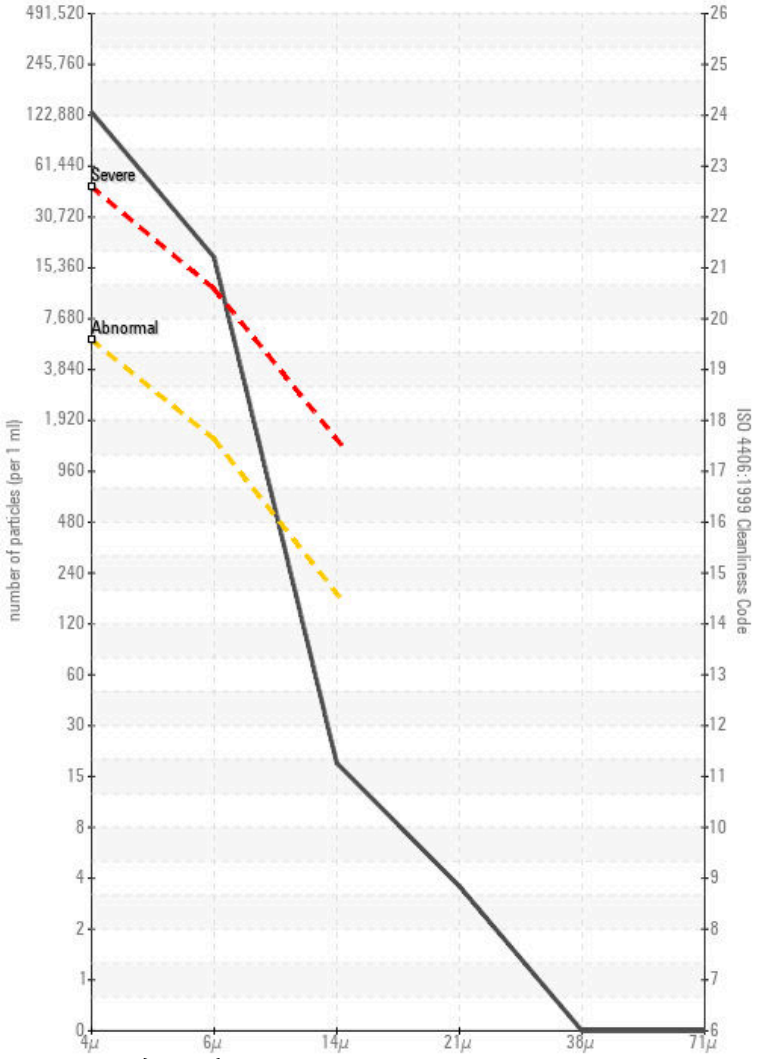
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

