



CONSTRUCTION EQUIPMENT

064267 MID GA PROP E TAKEUCHI TL12V2 412002890 - HYDRAULIC SYSTEM



Sample No: VCP388233
Oil Type: DIESEL ENGINE OIL SAE 10W30
Job No: 064267 MID GA PROP E



SAMPLE INFORMATION

Sample Number	VCP388233	---	---	---
Sample Date	01 Aug 2023	---	---	---
Machine Hours	1195	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

COWIN EQUIPMENT - ATLANTA

5710 RIVERVIEW RD
 MABLETON, GA
 US 30126

Contact: MIKE ANDREWS
 mandrews@cowin.com
 T: (404)690-7210
 F:



OIL CONDITION

Visc @ 40°C	cSt	■ 58.5	---	---	---
Acid Number (AN)	mg KOH/g	■ 1.01	---	---	---



CONTAMINATION

Particles >4µm		▲ 11140	---	---	---
Particles >6µm		■ 287	---	---	---
Particles >14µm		■ 30	---	---	---
ISO 4406:1999 (c)		21/15/12	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ <1	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 6 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	■ 4	---	---	---
Copper	ppm	■ 5	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 18	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 2	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 1510	---	---	---
Magnesium	ppm	■ 286	---	---	---
Zinc	ppm	■ 671	---	---	---
Phosphorus	ppm	■ 537	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 69	---	---	---

Depot: COWMAB
Unique No: 10586391
Signed: Jonathan Hester
Report Date: 04 Aug 2023

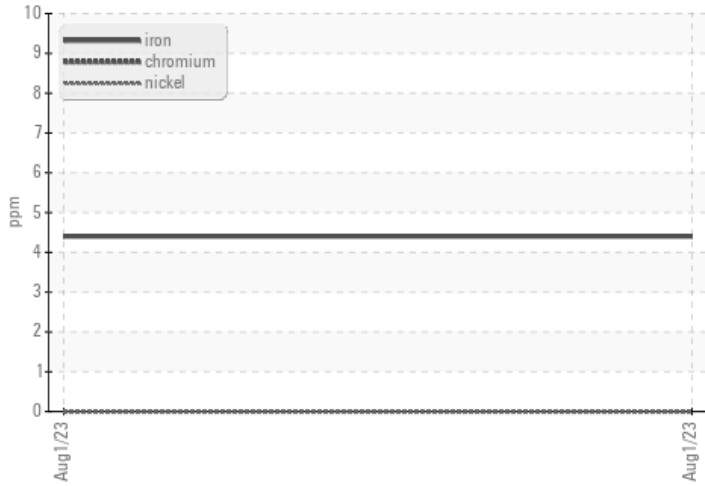


CONSTRUCTION EQUIPMENT

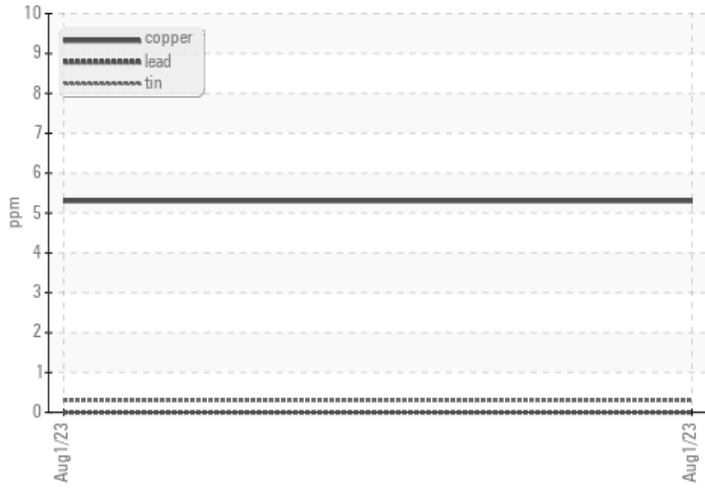


VOLVO GRAPHS

Ferrous Alloys



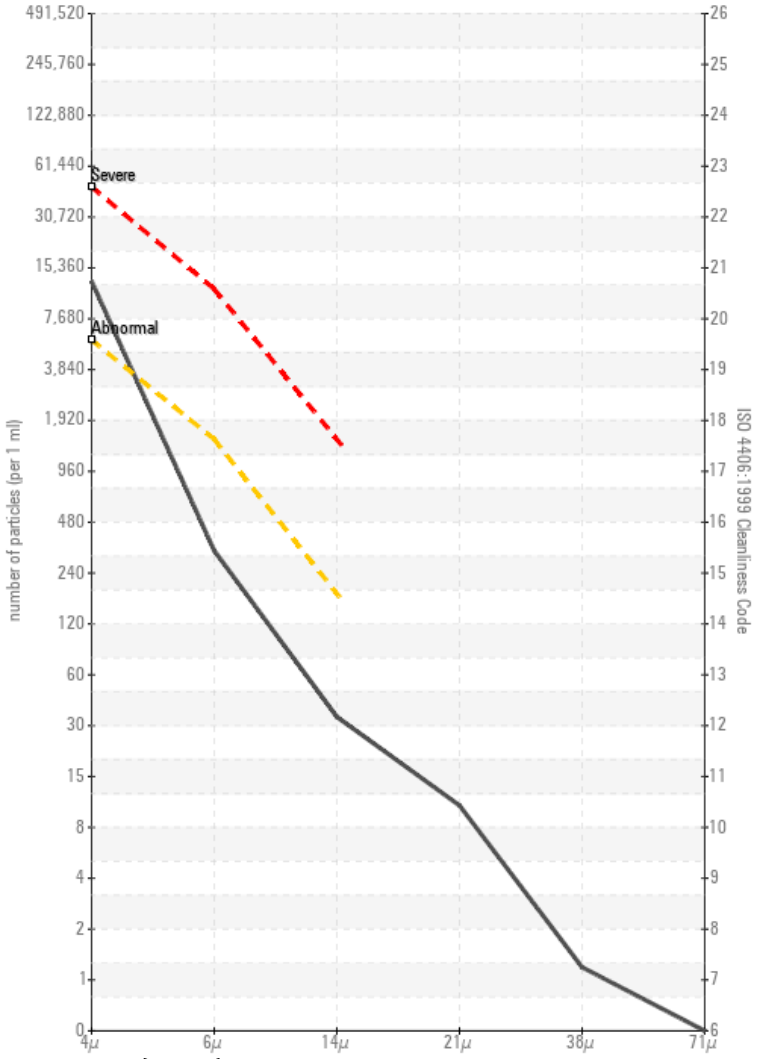
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

