



CONSTRUCTION EQUIPMENT

675483 MACK CONST TAKEUCHI TL8 408006479 - HYDRAULIC SYSTEM



Sample No: VCP446623
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 675483 MACK CONST



SAMPLE INFORMATION

Sample Number	VCP446623	---	---	---
Sample Date	26 Feb 2024	---	---	---
Machine Hours	97	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	● 55.2	---	---	---
Acid Number (AN)	mg KOH/g	■ 1.38	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 16050	---	---	---
Particles >6µm		▲ 4175	---	---	---
Particles >14µm		▲ 438	---	---	---
ISO 4406:1999 (c)		21/19/16	---	---	---
Silicon	ppm	■ 10	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ 2	---	---	---

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 particulates present in the oil. The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

WEAR METALS

Iron	ppm	■ 4	---	---	---
Copper	ppm	■ 7	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 16	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 3453	---	---	---
Magnesium	ppm	■ 10	---	---	---
Zinc	ppm	■ 748	---	---	---
Phosphorus	ppm	■ 628	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 13	---	---	---

Depot: VOLVO0096
Unique No: 10902498
Signed: Don Baldrige
Report Date: 02 Mar 2024

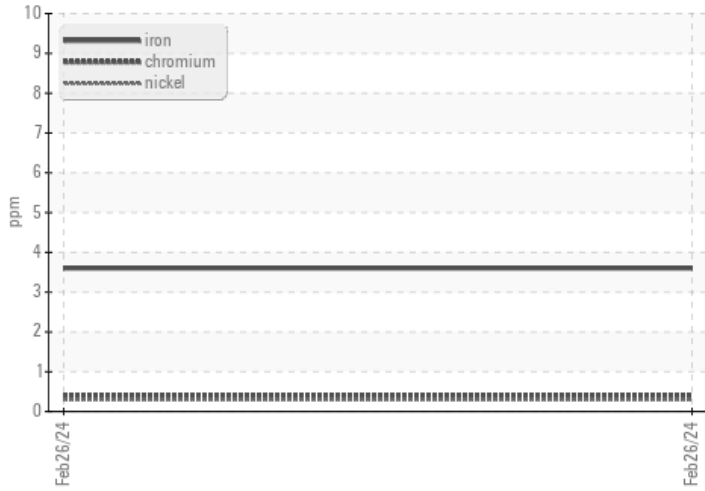


CONSTRUCTION EQUIPMENT

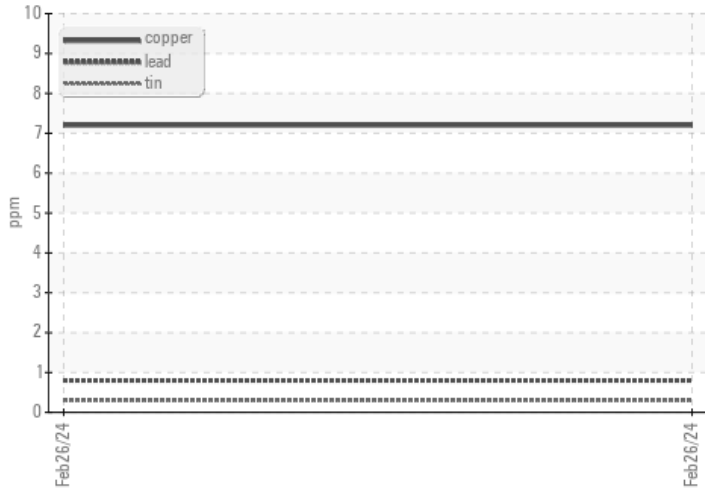


GRAPHS

Ferrous Alloys



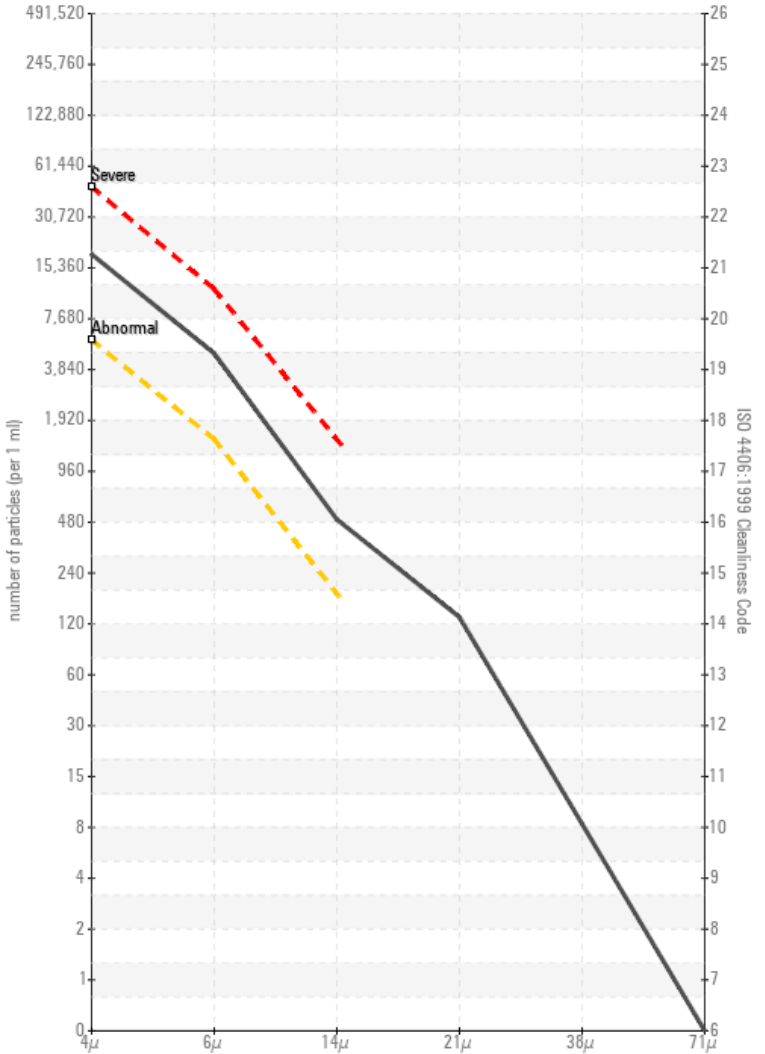
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

