



CONSTRUCTION EQUIPMENT

607447 MANHIEM TAKEUCHI TL130 21303336 - HYDRAULIC SYSTEM



Sample No: VCP440267
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 607447 MANHIEM



SAMPLE INFORMATION

Sample Number	VCP440267	---	---	---
Sample Date	20 Sep 2023	---	---	---
Machine Hours	746	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	■ 53.7	---	---	---
Acid Number (AN)	mg KOH/g	■ 1.17	---	---	---



CONTAMINATION

Particles >4µm		▲ 11696	---	---	---
Particles >6µm		▲ 2113	---	---	---
Particles >14µm		■ 89	---	---	---
ISO 4406:1999 (c)		21/18/14	---	---	---
Silicon	ppm	▲ 48	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 3	---	---	---

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. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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	■ 42	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 3	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2054	---	---	---
Magnesium	ppm	■ 45	---	---	---
Zinc	ppm	■ 583	---	---	---
Phosphorus	ppm	■ 476	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 4	---	---	---

Depot: VOLVO0096
Unique No: 10660964
Signed: Don Baldrige
Report Date: 26 Sep 2023

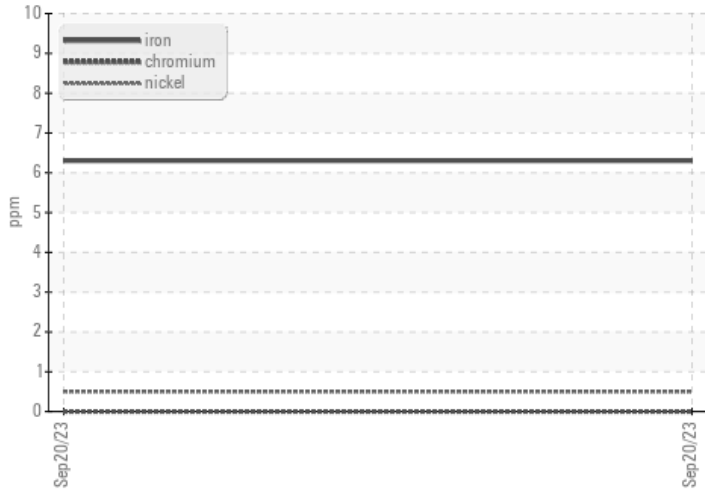


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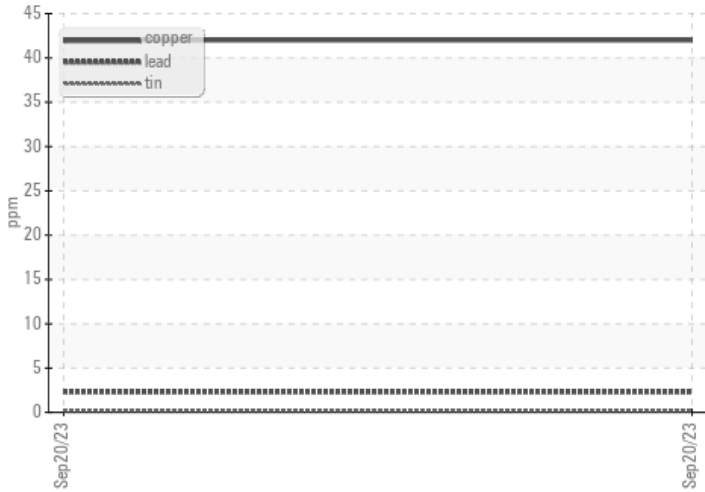


VOLVO GRAPHS

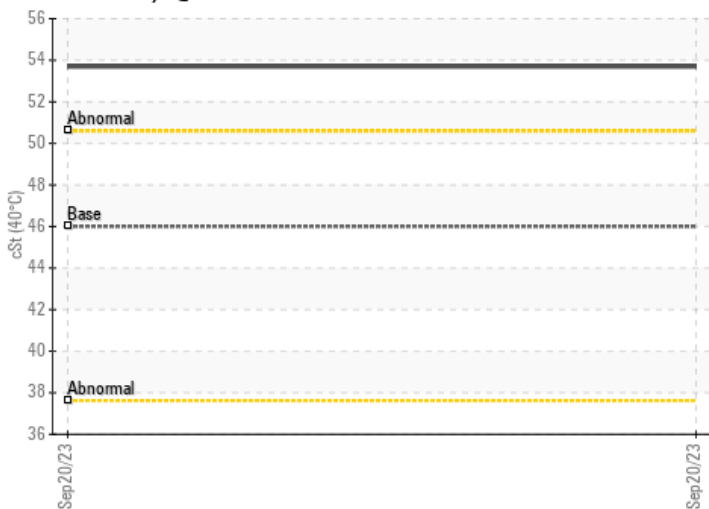
Ferrous Alloys



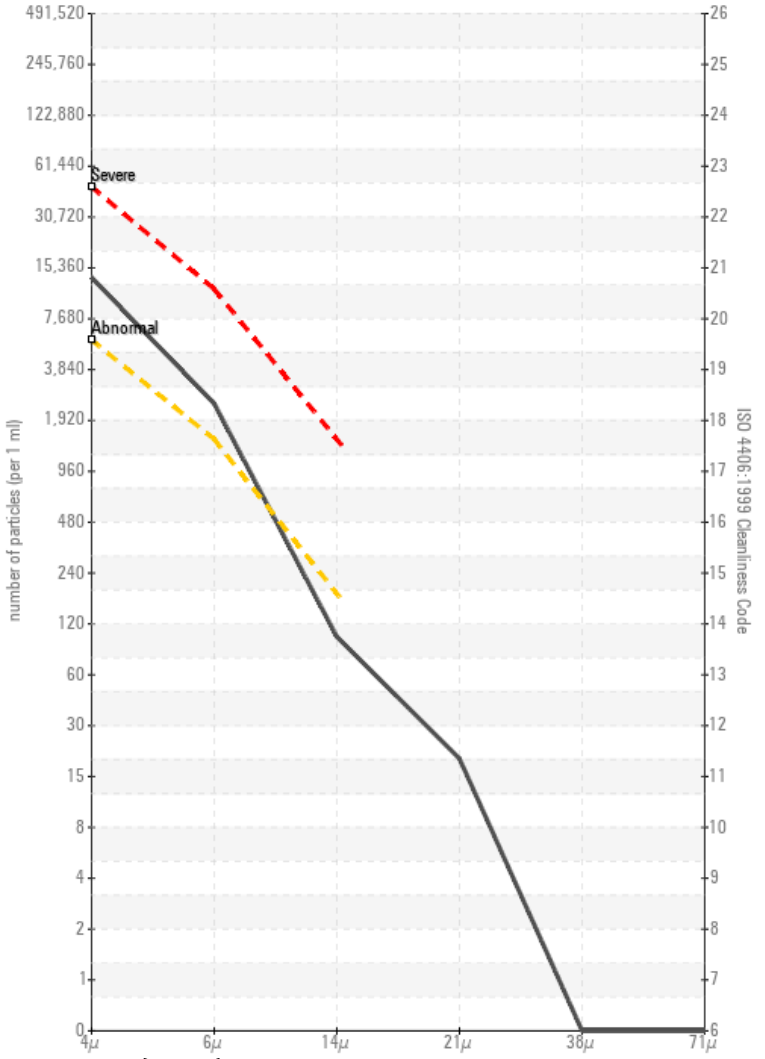
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

