



CONSTRUCTION EQUIPMENT

LKQ VOLVO L60H 622998 - HYDRAULIC SYSTEM



Sample No: VCP440777
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: LKQ



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SAMPLE INFORMATION

Sample Number	VCP440777	---	---	---
Sample Date	23 Nov 2023	---	---	---
Machine Hours	1027	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	▲ 47.1	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.37	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 65544	---	---	---
Particles >6µm		▲ 19967	---	---	---
Particles >14µm		▲ 1170	---	---	---
ISO 4406:1999 (c)		23/21/17	---	---	---
Silicon	ppm	■ 3	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ <1	---	---	---

Diagnosis

We recommend you service the filters on this component. 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 lower 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	■ 3	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 2	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 67	---	---	---
Magnesium	ppm	■ 8	---	---	---
Zinc	ppm	■ 361	---	---	---
Phosphorus	ppm	■ 286	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 0	---	---	---

Depot: VOLVO0093
Unique No: 10777451
Signed: Don Baldrige
Report Date: 08 Dec 2023

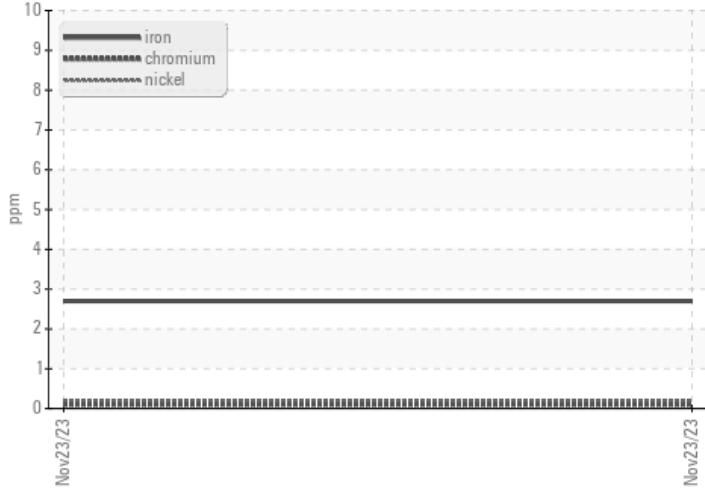


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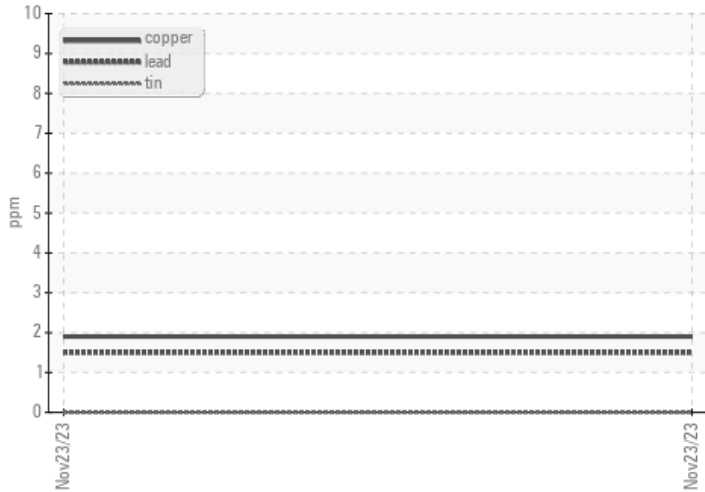


GRAPHS

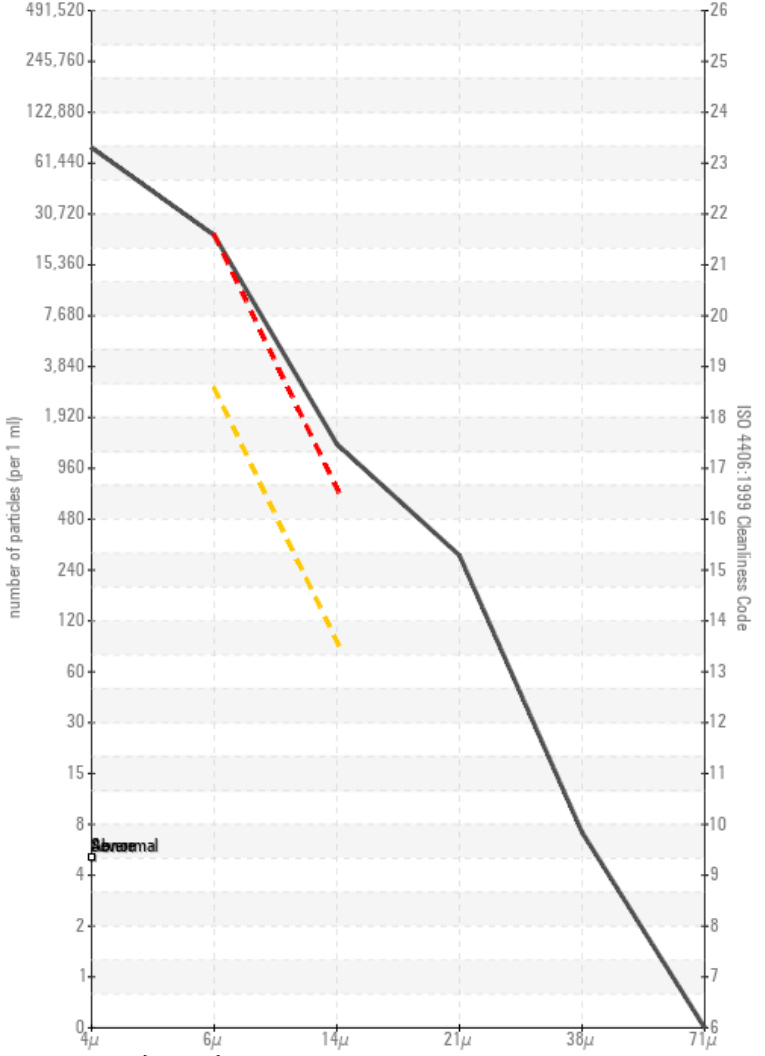
Ferrous Alloys



Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number

