



CONSTRUCTION EQUIPMENT

X48356 VOLVO L180H 005706 - HYDRAULIC SYSTEM



Sample No: VCP442764
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: X48356



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SAMPLE INFORMATION

Sample Number	VCP442764	---	---	---
Sample Date	05 Jan 2024	---	---	---
Machine Hours	2077	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ATTENTION	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	▲ 42.0	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.29	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		■ 17749	---	---	---
Particles >6µm		■ 2146	---	---	---
Particles >14µm		■ 65	---	---	---
ISO 4406:1999 (c)		21/18/13	---	---	---
Silicon	ppm	■ 2	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 2	---	---	---



WEAR METALS

Iron	ppm	■ 2	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 49	---	---	---
Magnesium	ppm	■ 0	---	---	---
Zinc	ppm	■ 418	---	---	---
Phosphorus	ppm	■ 343	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 0	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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.

Depot: VOLVO6244
Unique No: 10829404
Signed: Don Baldrige
Report Date: 12 Jan 2024

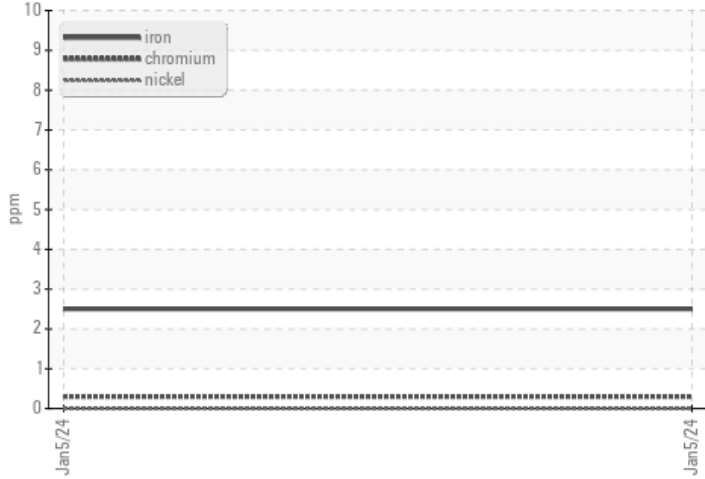


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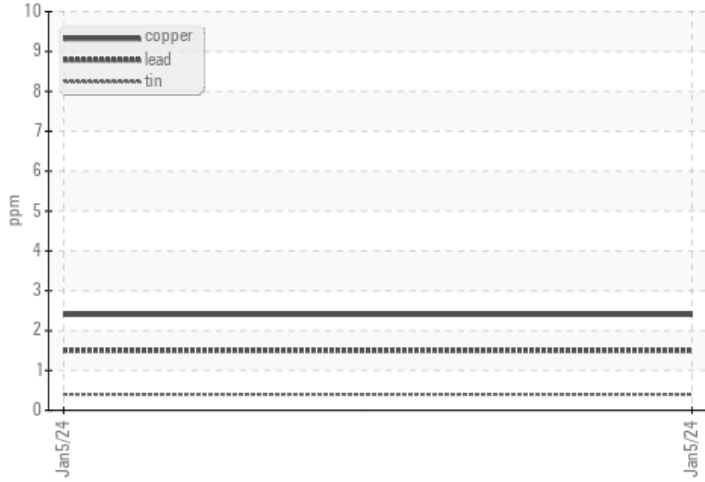


GRAPHS

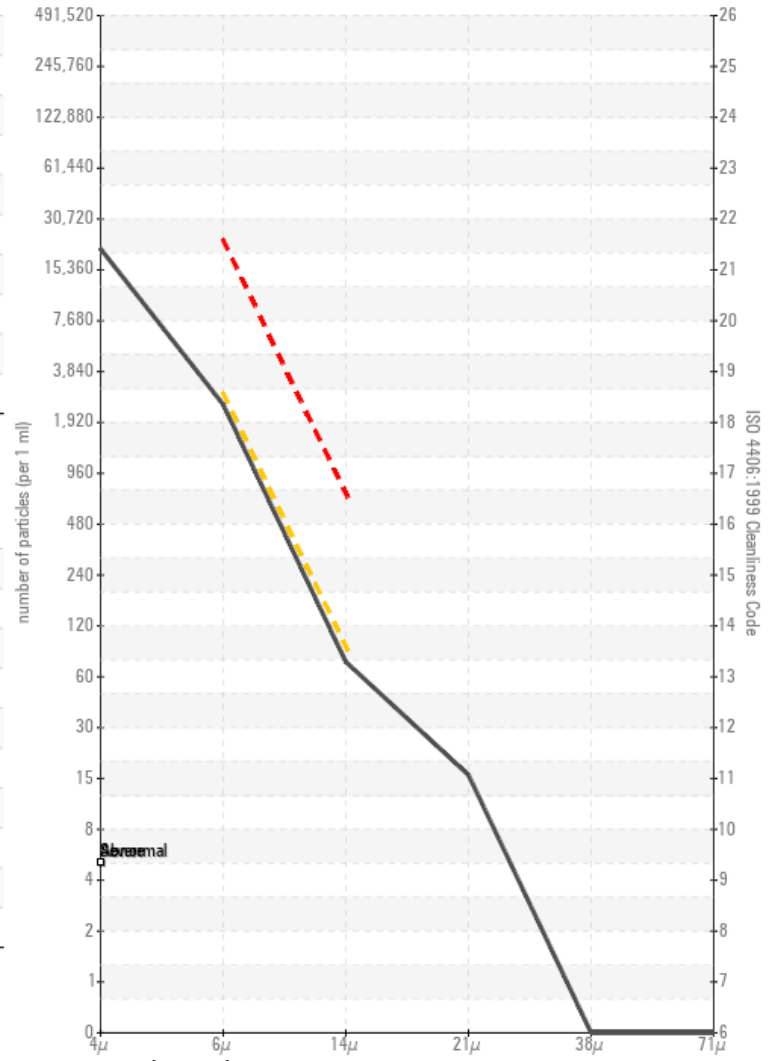
Ferrous Alloys



Non-ferrous Metals

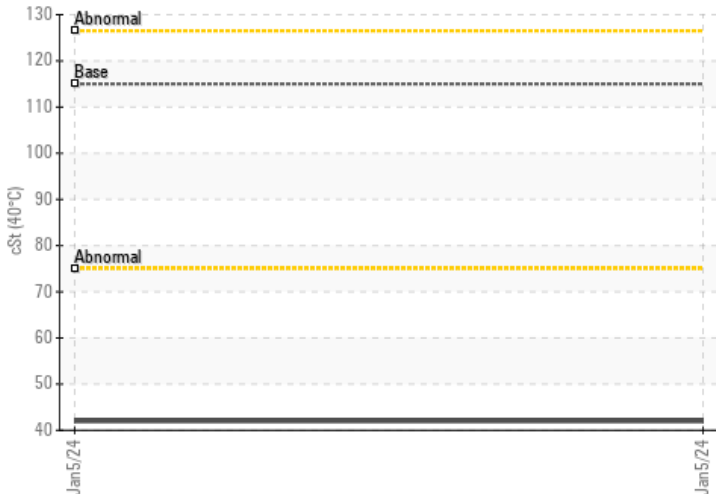


Particle Count



ISO 4406:1999 Cleanliness Code

Viscosity @ 40°C



Acid Number

