



CONSTRUCTION EQUIPMENT

703448 RITCHIES BROS VOLVO L90H 627943 - HYDRAULIC SYSTEM



Sample No: VCP451281
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: 703448 RITCHIES BROS



SAMPLE INFORMATION

Sample Number	VCP451281	---	---	---
Sample Date	29 Apr 2024	---	---	---
Machine Hours	573	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 45.3	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.47	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 28523	---	---	---
Particles >6µm		▲ 7764	---	---	---
Particles >14µm		▲ 494	---	---	---
ISO 4406:1999 (c)		22/20/16	---	---	---
Silicon	ppm	█ 0	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 0	---	---	---

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

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



ADDITIVES

Calcium	ppm	█ 73	---	---	---
Magnesium	ppm	█ 4	---	---	---
Zinc	ppm	█ 445	---	---	---
Phosphorus	ppm	█ 350	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: VOLVO0096
Unique No: 11007541
Signed: Wes Davis
Report Date: 03 May 2024

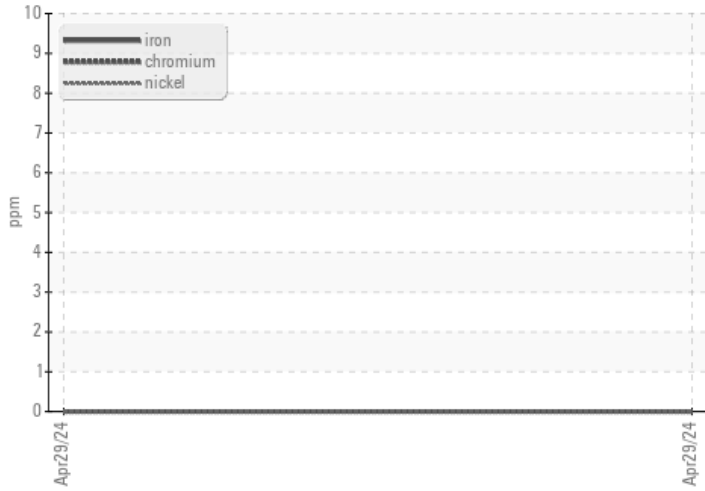


CONSTRUCTION EQUIPMENT

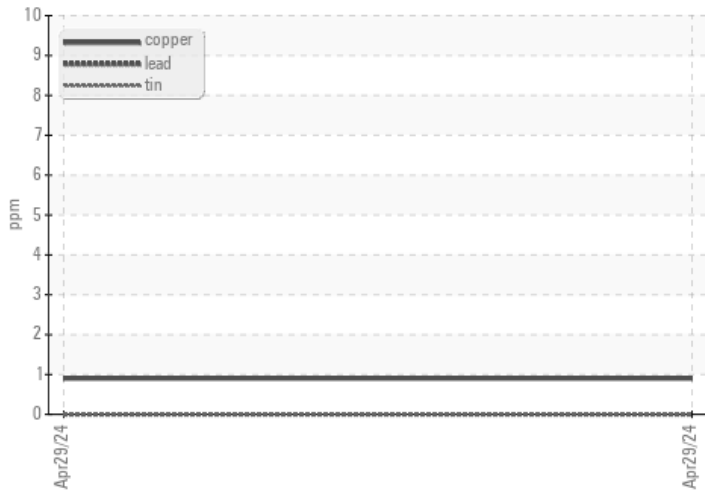


GRAPHS

Ferrous Alloys



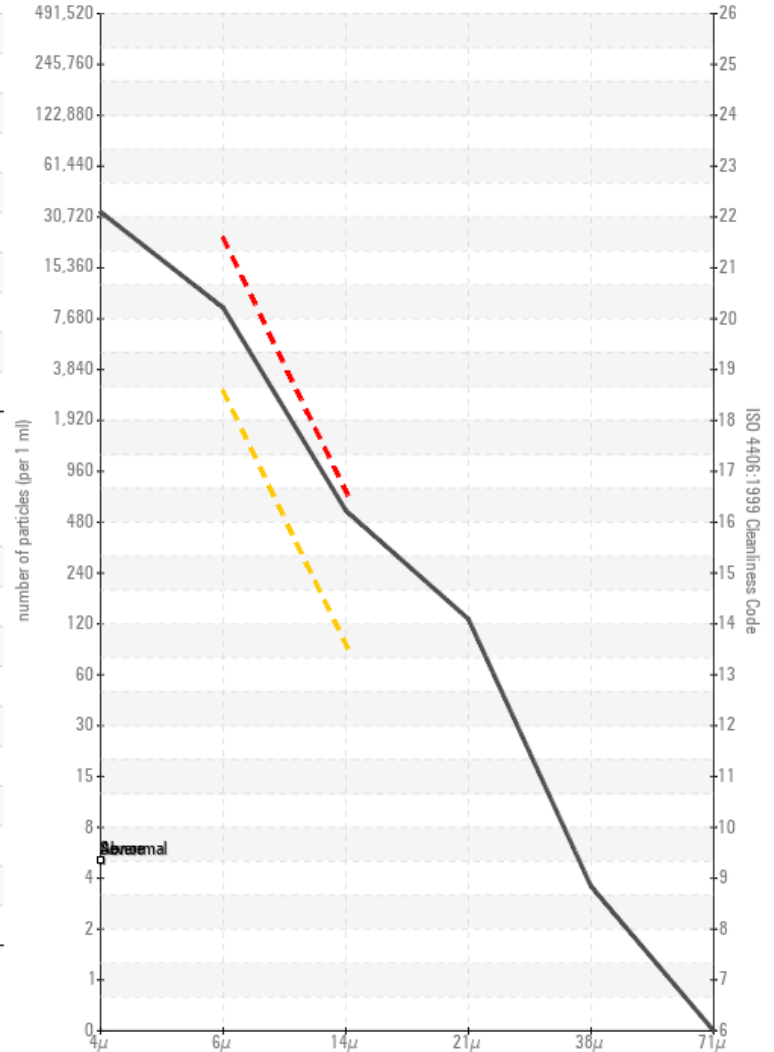
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

