



CONSTRUCTION EQUIPMENT

374949 VOLVO L60F 61944 - HYDRAULIC SYSTEM



Sample No: VCP394749
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 374949



SAMPLE INFORMATION

Sample Number	VCP394749	VCE241546	VCE038161	---
Sample Date	13 Sep 2023	25 Apr 2016	16 Dec 2009	---
Machine Hours	7872	3658	146	---
Oil Hours	4000	0	156	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

STRONGCO EQUIP (AB)

6 - 38403 BURNT LAKE TRAIL
 RED DEER COUNTY, AB
 CA T4S 2L4
 Contact: Perry Doyle
 pdoyle@strongco.com
 T: (403)346-3473
 F: (403)346-3487



OIL CONDITION

Visc @ 40°C	cSt	▲ 51.2	■ 44.5	■ 43.2	---
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CONTAMINATION

Particles >4µm		21273	27272	---	---
Particles >6µm		■ 1395	■ 1399	■ 607	---
Particles >14µm		▲ 130	■ 36	■ 54	---
ISO 4406:1999 (c)		22/18/14	22/18/12	--/16/13	---
Silicon	ppm	■ 5	■ 7	■ 7	---
Sodium	ppm	■ 3	■ 2	■ <1	---
Potassium	ppm	■ <1	■ <1	■ <1	---

Diagnosis

The filter change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	■ 3	■ 5	■ 2	---
Copper	ppm	■ <1	■ 1	■ 1	---
Lead	ppm	■ 0	■ <1	■ <1	---
Tin	ppm	■ 0	■ <1	■ <1	---
Aluminum	ppm	■ <1	■ 2	■ <1	---
Chromium	ppm	■ 0	■ <1	■ 0	---
Molybdenum	ppm	■ 7	■ 2	■ <1	---
Nickel	ppm	■ 0	■ <1	■ 0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	■ 0	■ <1	0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	▲ 3082	2250	53	---
Magnesium	ppm	■ 18	23	■ <1	---
Zinc	ppm	▲ 1264	1039	■ 436	---
Phosphorus	ppm	▲ 1208	■ 835	■ 336	---
Barium	ppm	■ 0	■ <1	■ 0	---
Boron	ppm	▲ 35	59	■ <1	---

Depot: VOLVO9652
Unique No: 5643935
Signed: Bill Quesnel
Report Date: 18 Sep 2023

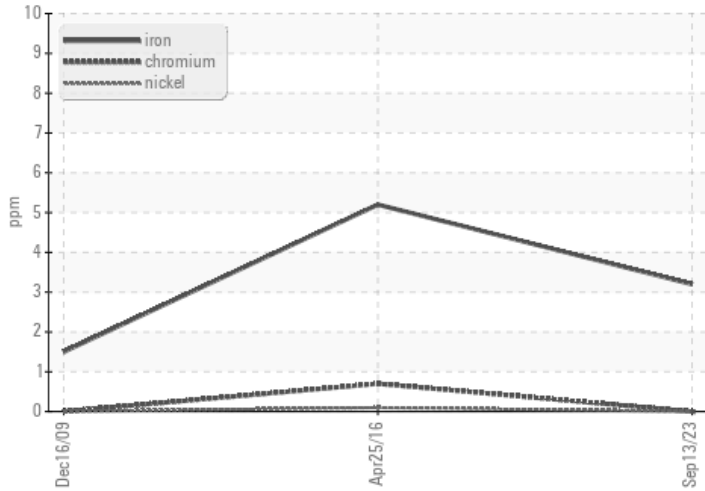


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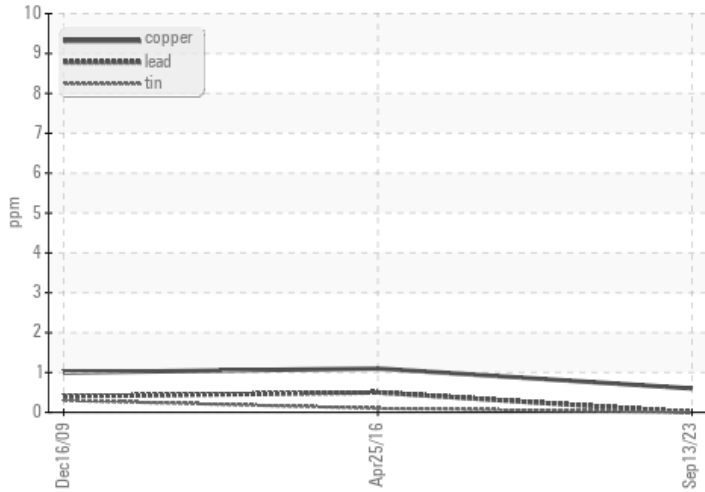


GRAPHS

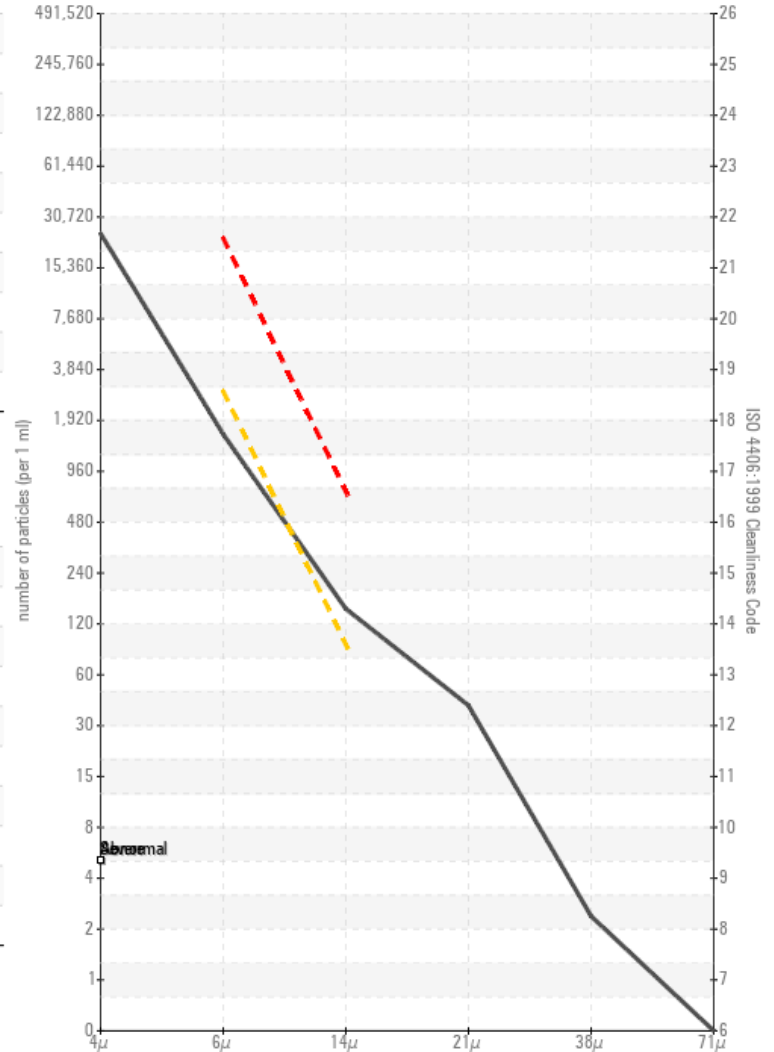
Ferrous Alloys



Non-ferrous Metals



Particle Count



Viscosity @ 40°C

