



CONSTRUCTION EQUIPMENT

5307 - HYDRAULIC SYSTEM



Sample No: VCP392486
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP392486	VCP298216	---	---
Sample Date	02 Apr 2024	28 Aug 2021	---	---
Machine Hours	13796	10039	---	---
Oil Hours	2000	4000	---	---
Oil Changed	Not Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

GREAT WEST EQUIPMENT
 1600 KOSMINA ROAD, 123 L&A CROSS RD
 VERNON, BC
 CA V1T 8T2
 Contact: Sarah Lawrence
 slawrence@gwequipment.com
 T: (866)627-2357
 F: (250)549-3397



OIL CONDITION

Visc @ 40°C	cSt	▲ 36.8	■ 40.0	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		▲ 12287	■ 321	---	---
Particles >6µm		■ 435	■ 132	---	---
Particles >14µm		■ 12	■ 16	---	---
ISO 4406:1999 (c)		21/16/11	16/14/11	---	---
Silicon	ppm	■ 2	■ 4	---	---
Sodium	ppm	■ 1	■ 2	---	---
Potassium	ppm	■ <1	■ 1	---	---

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	■ 15	■ 19	---	---
Copper	ppm	■ <1	■ 2	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ 0	■ <1	---	---
Aluminum	ppm	■ 1	■ 2	---	---
Chromium	ppm	■ 2	■ 4	---	---
Molybdenum	ppm	■ 0	■ <1	---	---
Nickel	ppm	■ <1	■ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	■ 0	■ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 53	■ 56	---	---
Magnesium	ppm	■ 2	■ 2	---	---
Zinc	ppm	■ 411	■ 433	---	---
Phosphorus	ppm	■ 319	■ 343	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ <1	■ <1	---	---

Depot: MARVER
Unique No: 5763762
Signed: Kevin Marson
Report Date: 23 Apr 2024

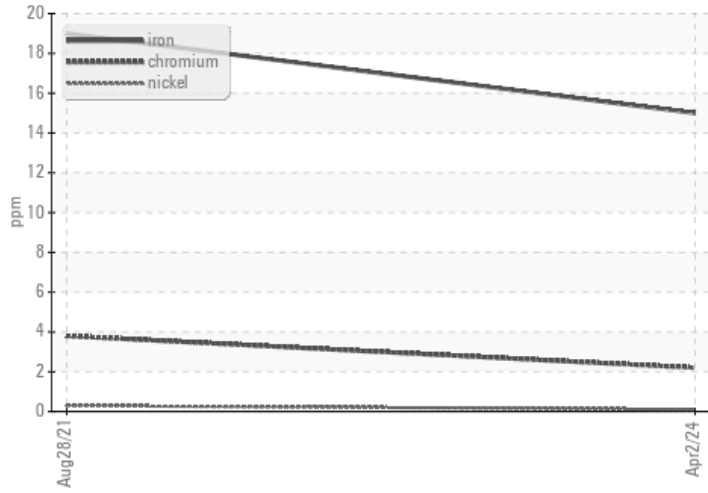


CONSTRUCTION EQUIPMENT

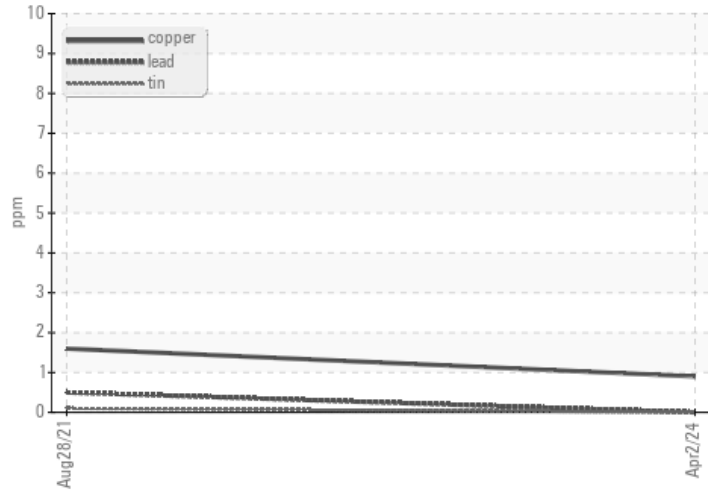


VOLVO GRAPHS

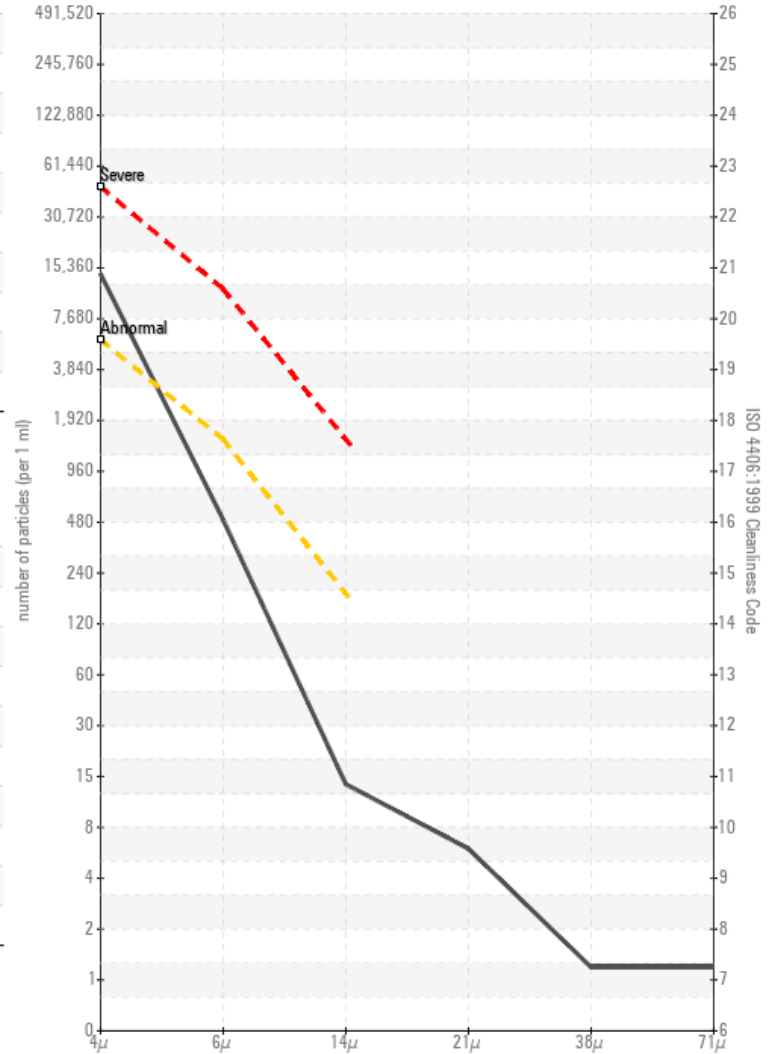
Ferrous Alloys



Non-ferrous Metals



Particle Count



Viscosity @ 40°C

