



CONSTRUCTION EQUIPMENT

689229 STONE CO VOLVO EC350E 314488 - HYDRAULIC SYSTEM



Sample No: VCP447063
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 689229 STONE CO



SAMPLE INFORMATION

Sample Number	VCP447063	VCP412463	VCP414129	---
Sample Date	01 Apr 2024	28 Aug 2023	15 Jun 2023	---
Machine Hours	1972	1004	492	---
Oil Hours	1972	1004	492	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	41.8	41.5	42.5	---
Acid Number (AN)	mg KOH/g	0.46	0.48	0.49	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		150074	14718	21735	---
Particles >6µm		27319	1682	9811	---
Particles >14µm		496	19	1123	---
ISO 4406:1999 (c)		24/22/16	21/18/11	22/20/17	---
Silicon	ppm	3	3	3	---
Sodium	ppm	<1	0	0	---
Potassium	ppm	0	<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 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	3	4	3	---
Copper	ppm	32	31	25	---
Lead	ppm	0	<1	<1	---
Tin	ppm	1	<1	<1	---
Aluminum	ppm	<1	1	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	115	111	123	---
Magnesium	ppm	1	2	2	---
Zinc	ppm	507	531	580	---
Phosphorus	ppm	396	405	428	---
Barium	ppm	0	2	2	---
Boron	ppm	0	0	0	---

Depot: VOLVO2990
Unique No: 10968968
Signed: Wes Davis
Report Date: 11 Apr 2024

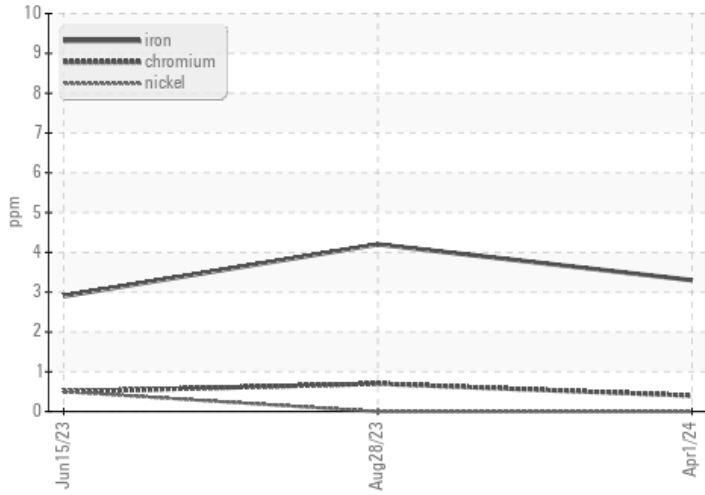


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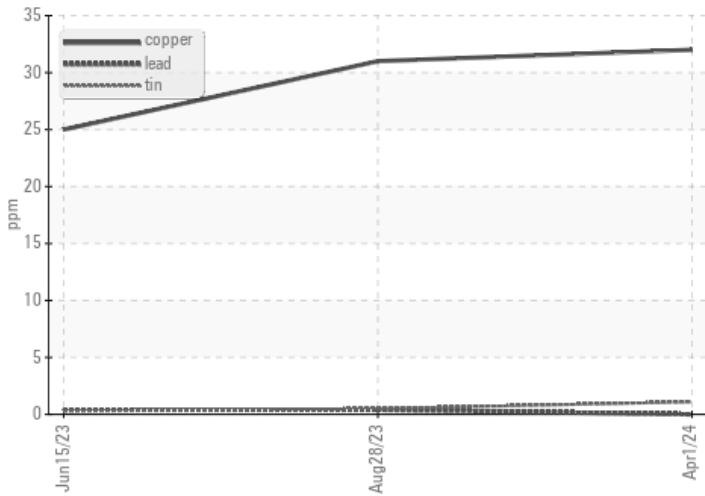


GRAPHS

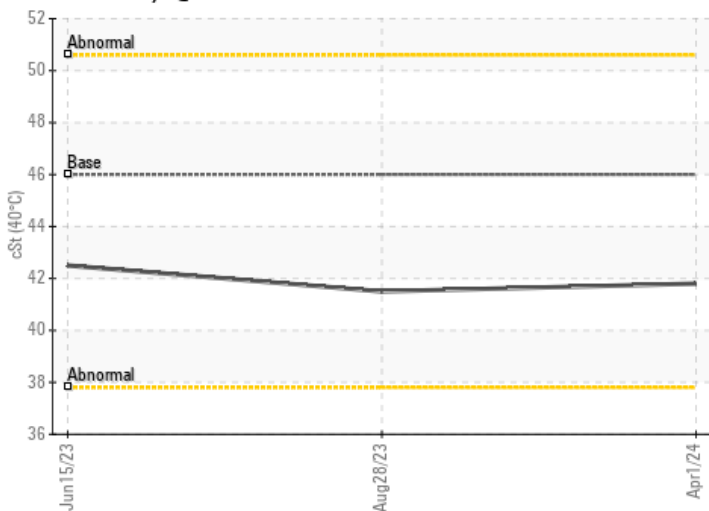
Ferrous Alloys



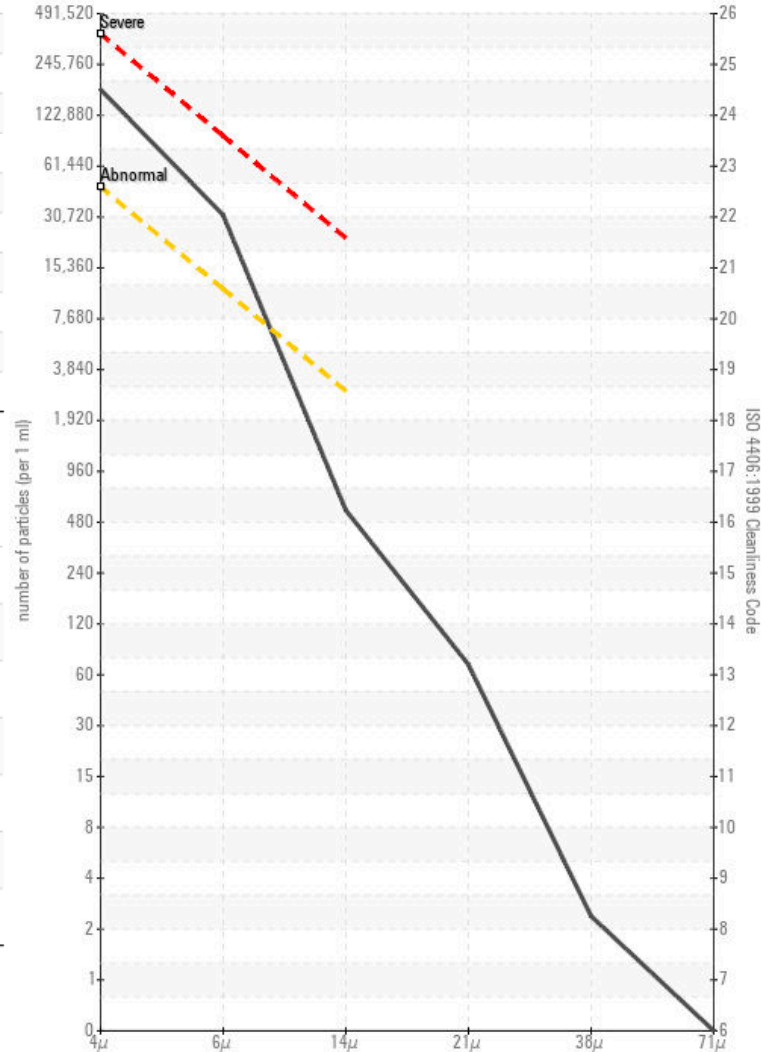
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

