



CONSTRUCTION EQUIPMENT

SPM540449 VOLVO L220E 2 194 - HYDRAULIC SYSTEM



Sample No: VCP404603
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM540449



SAMPLE INFORMATION

Sample Number	VCP404603	VCP365278	VCP05526748	---
Sample Date	25 Apr 2023	10 Oct 2022	14 Apr 2022	---
Machine Hours	24189	25053	25025	---
Oil Hours	0	0	25025	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	ABNORMAL	NORMAL	ATTENTION	---

WASTE MANAGEMENT - GARY
 1508 SHERMAN ST
 GARY, IN
 US 46406
 Contact: TARA RORK

OIL CONDITION

Visc @ 40°C	cSt	42.7	42.8	43.1	---
Acid Number (AN)	mg KOH/g	0.33	0.36	0.43	---

T:
F:

CONTAMINATION

Particles >4µm		27824	25098	21727	---
Particles >6µm		4351	2459	2325	---
Particles >14µm		197	63	122	---
ISO 4406:1999 (c)		22/19/15	22/18/13	22/18/14	---
Silicon	ppm	0	<1	<1	---
Sodium	ppm	0	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	<1	2	2	---
Copper	ppm	4	4	4	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	<1	1	1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	0	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	86	82	77	---
Magnesium	ppm	2	4	4	---
Zinc	ppm	511	512	467	---
Phosphorus	ppm	414	388	354	---
Barium	ppm	0	0	0	---
Boron	ppm	0	2	2	---

Depot: WASGARIN
Unique No: 10457937
Signed: Wes Davis
Report Date: 08 May 2023

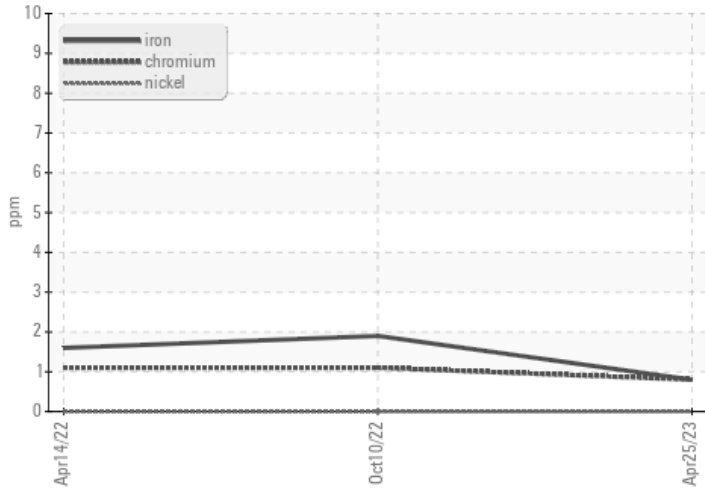


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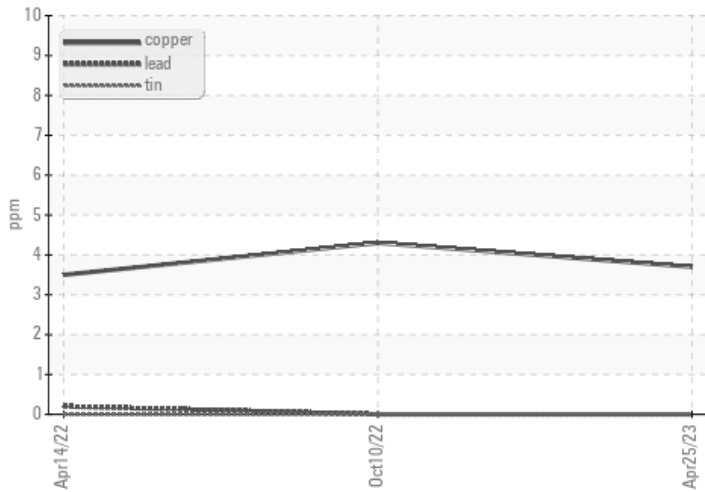


VOLVO GRAPHS

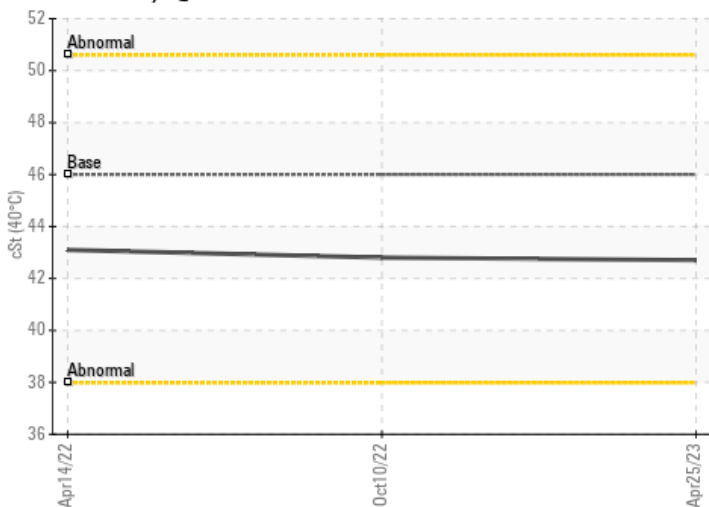
Ferrous Alloys



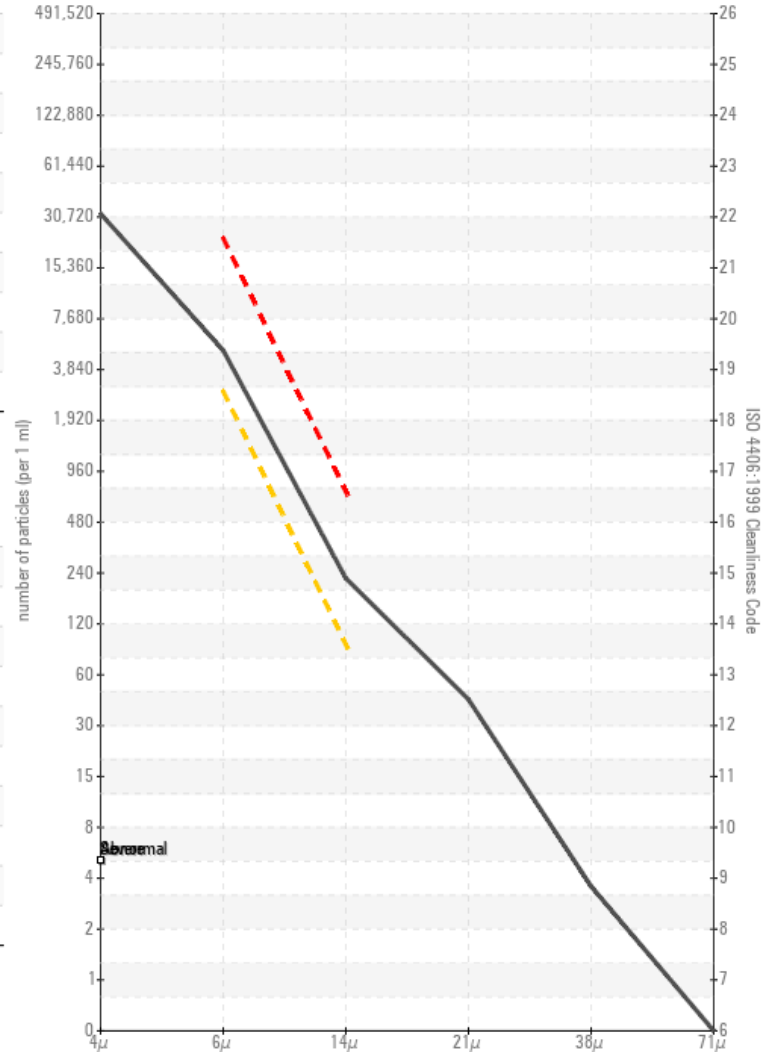
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

