



CONSTRUCTION EQUIPMENT

SWA510210 VOLVO L220G 12011 - HYDRAULIC SYSTEM



Sample No: VCP370392
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA510210



SAMPLE INFORMATION

Sample Number	VCP370392	VCP386454	VCP320141	VCP313121
Sample Date	20 Mar 2024	07 Oct 2022	25 Sep 2021	26 Jun 2021
Machine Hours	21938	19623	18543	18125
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	Not Changd	N/A
Sample Status	ABNORMAL	NORMAL	ATTENTION	NORMAL

ALTA EQUIPMENT

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 SYRACUSE, NY
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OIL CONDITION

Visc @ 40°C	cSt	40.8	42.3	42.1	41.5
Acid Number (AN)	mg KOH/g	1.09	0.82	0.757	0.808



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		28461	3946	17028	6980
Particles >6µm		7121	872	3062	1000
Particles >14µm		166	52	108	40
ISO 4406:1999 (c)		22/20/15	19/17/13	21/19/14	20/17/12
Silicon	ppm	4	3	9	9
Sodium	ppm	<1	0	5	4
Potassium	ppm	0	0	<1	2

Diagnosis

We recommend you service the filters on this component. 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	2	3	4
Copper	ppm	<1	<1	1	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	2	0
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	<1	1	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2056	1029	2881	2436
Magnesium	ppm	14	15	28	21
Zinc	ppm	909	741	1207	1057
Phosphorus	ppm	845	608	996	870
Barium	ppm	0	0	0	0
Boron	ppm	12	4	63	74

Depot: VOLV00142
Unique No: 10941858
Signed: Wes Davis
Report Date: 26 Mar 2024

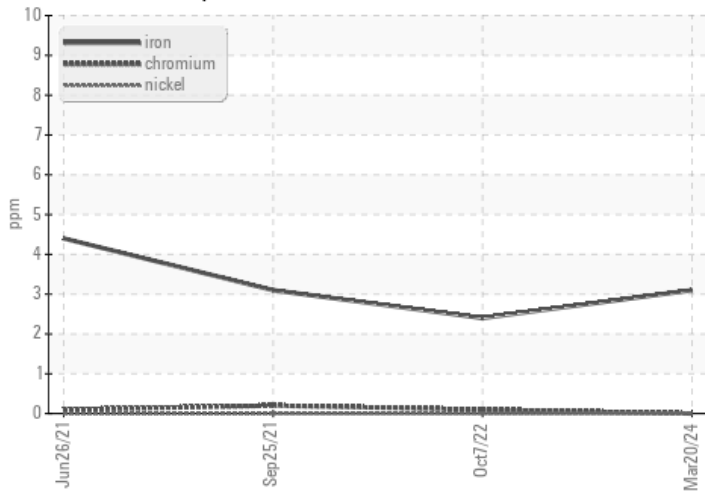


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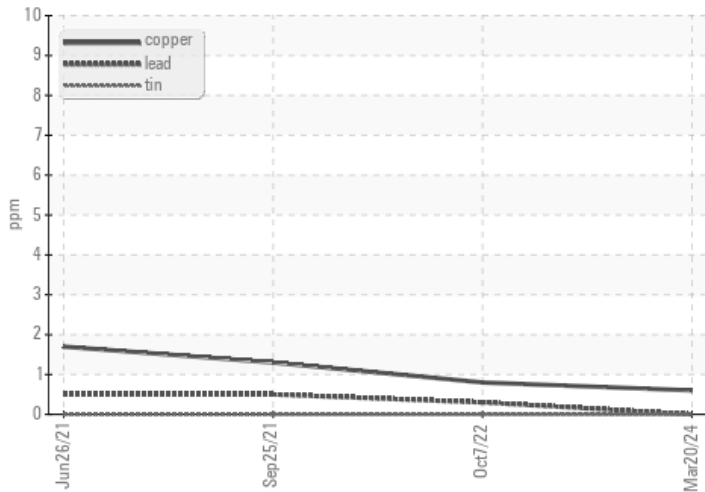


GRAPHS

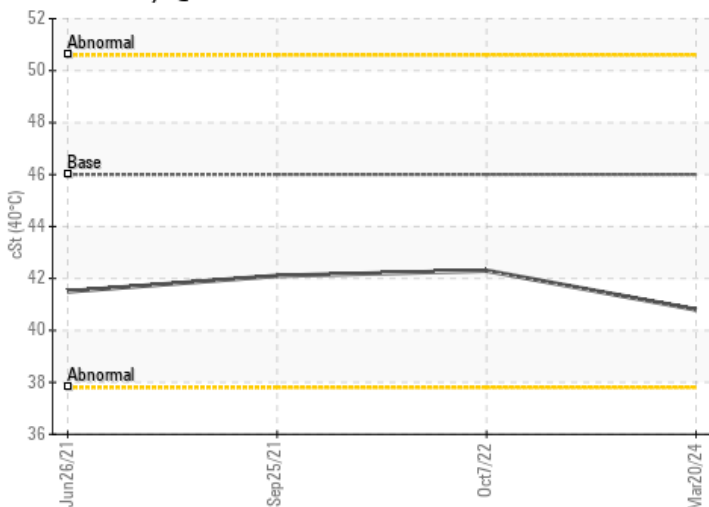
Ferrous Alloys



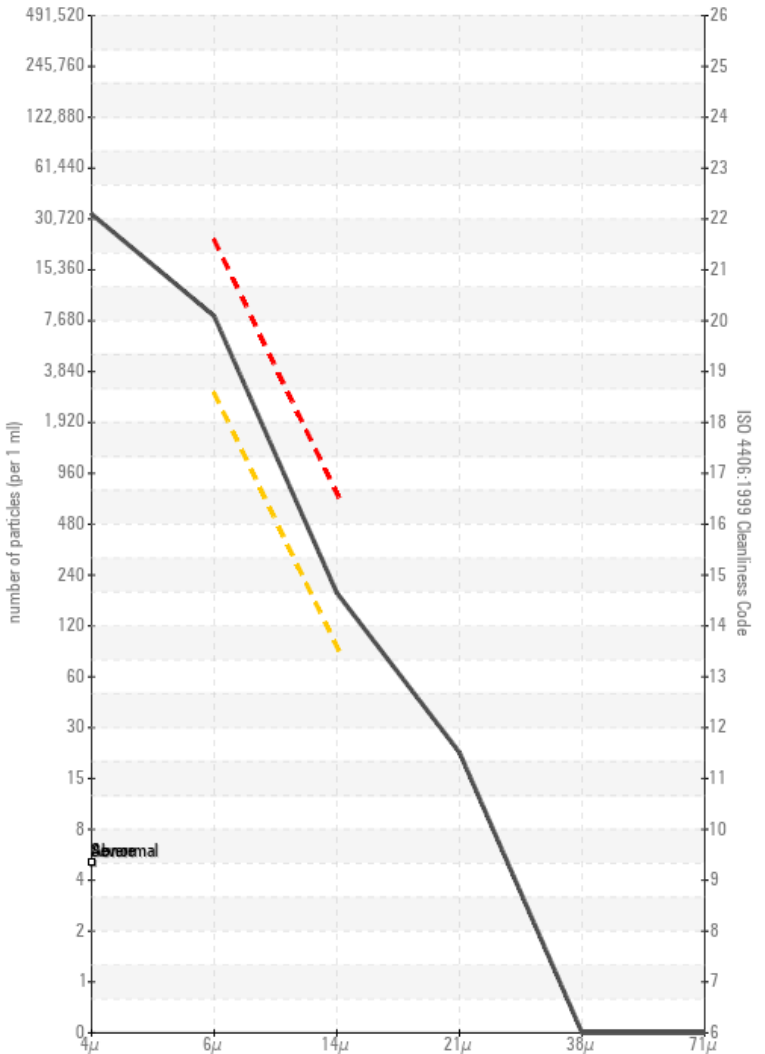
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

