



CONSTRUCTION EQUIPMENT

S2214 IAA FREMONT VOLVO L90H 623642 - HYDRAULIC SYSTEM



Sample No: VCP446809
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: S2214 IAA FREMONT



SAMPLE INFORMATION

Sample Number	VCP446809	VCP363846	VCP326131	VCP291560
Sample Date	03 Apr 2024	04 Jan 2023	29 Oct 2021	10 Nov 2020
Machine Hours	12482	10471	8405	6393
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT

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OIL CONDITION

Visc @ 40°C	cSt	42.9	42.6	42.8	41.9
Acid Number (AN)	mg KOH/g	0.23	0.27	0.334	0.330



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		9309	5143	1753	1282
Particles >6µm		2526	1028	511	293
Particles >14µm		126	69	39	20
ISO 4406:1999 (c)		20/19/14	20/17/13	18/16/12	17/15/11
Silicon	ppm	2	6	5	3
Sodium	ppm	0	0	2	2
Potassium	ppm	1	<1	<1	<1

Diagnosis

We recommend you service the filters on this component. 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	2	2	3	4
Copper	ppm	2	2	3	4
Lead	ppm	<1	<1	1	1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	<1	1	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	71	60	54	52
Magnesium	ppm	<1	<1	<1	<1
Zinc	ppm	441	484	414	398
Phosphorus	ppm	363	386	345	322
Barium	ppm	<1	0	0	0
Boron	ppm	0	0	3	0

Depot: VOLVO4487
Unique No: 10966994
Signed: Wes Davis
Report Date: 11 Apr 2024

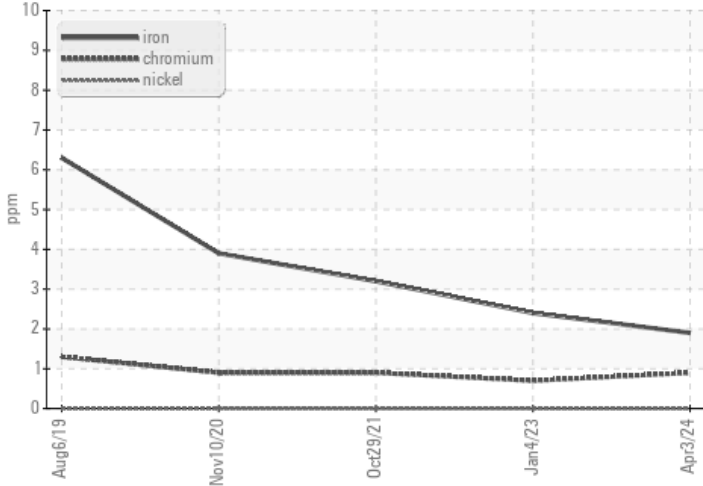


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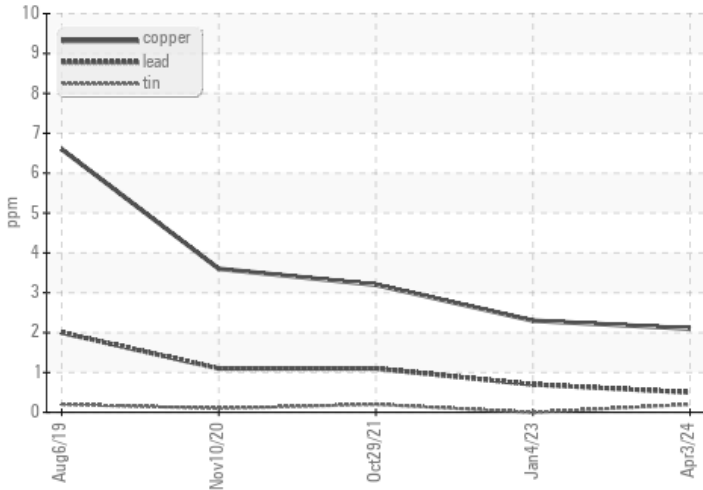


GRAPHS

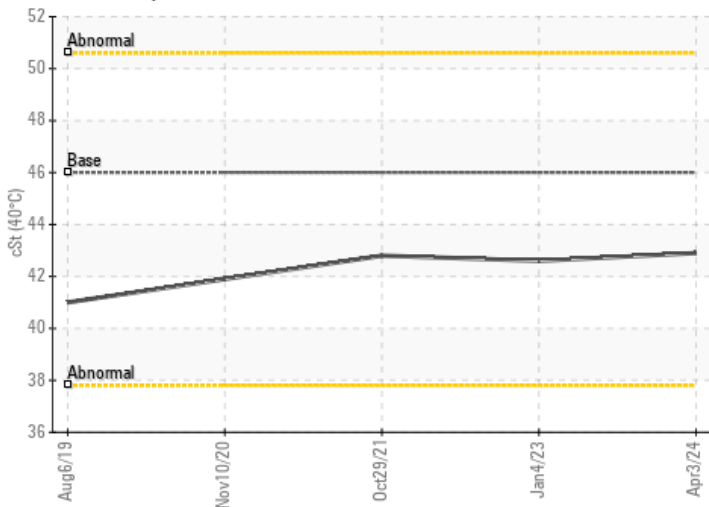
Ferrous Alloys



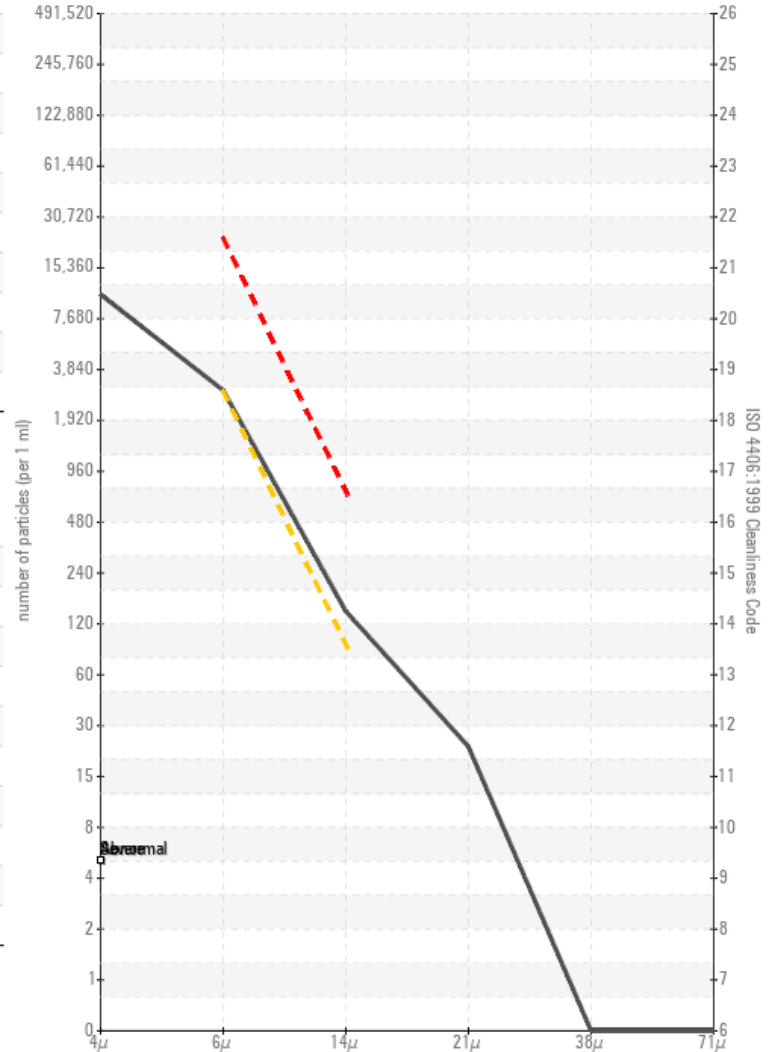
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

