CONSTRUCTION EQUIPMENT

IMPORT AUTO SEFFNER VOLVO ECR235EL 311427 - HYDRAULIC SYSTEM

Sample No: VCP452092
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: IMPORT AUTO SEFFNER

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SAMPLE INFORMATION

Sample Number		**VCP452092**	VCP425791	VCP394450	VCP376643
Sample Date		**30 Jan 2024**	15 Jun 2023	09 Mar 2023	21 Jul 2022
Machine Hours		**5324**	4260	3792	2768
Oil Hours		**0**	2000	1792	500
Oil Changed		**Not Changd**	Changed	Not Changd	Not Changd
Sample Status		**ABNORMAL**	ATTENTION	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**49.1**	55.3	51.1	44.5
Acid Number (AN)	mg KOH/g	**0.40**	0.21	0.26	0.38

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**148207**	1887	2716	8547
Particles >6µm		**49773**	225	434	2501
Particles >14µm		**533**	12	23	299
ISO 4406:1999 (c)		**24/23/16**	18/15/11	19/16/12	20/19/15
Silicon	ppm	**2**	2	2	2
Sodium	ppm	**2**	0	1	0
Potassium	ppm	**0**	1	0	<1

WEAR METALS

Iron	ppm	**35**	13	12	7
Copper	ppm	**14**	12	10	9
Lead	ppm	**0**	<1	0	<1
Tin	ppm	**0**	0	0	0
Aluminum	ppm	**<1**	<1	<1	<1
Chromium	ppm	**<1**	<1	<1	0
Molybdenum	ppm	**<1**	2	2	4
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**0**	0	0	0
Silver	ppm	**0**	0	0	0
Manganese	ppm	**<1**	0	<1	0
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**67**	75	96	154
Magnesium	ppm	**2**	4	9	14
Zinc	ppm	**335**	288	313	407
Phosphorus	ppm	**268**	222	248	313
Barium	ppm	**0**	0	0	0
Boron	ppm	**0**	<1	1	5

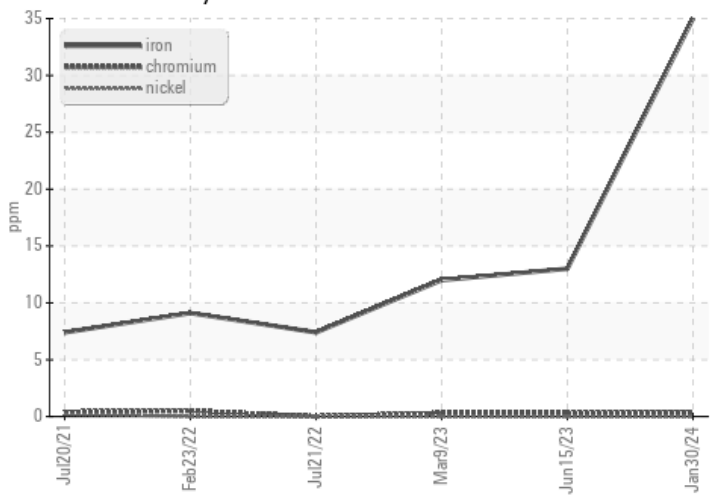
Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor.The iron level is abnormal. All other component wear rates are normal. There is a high 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 acceptable for the time in service.

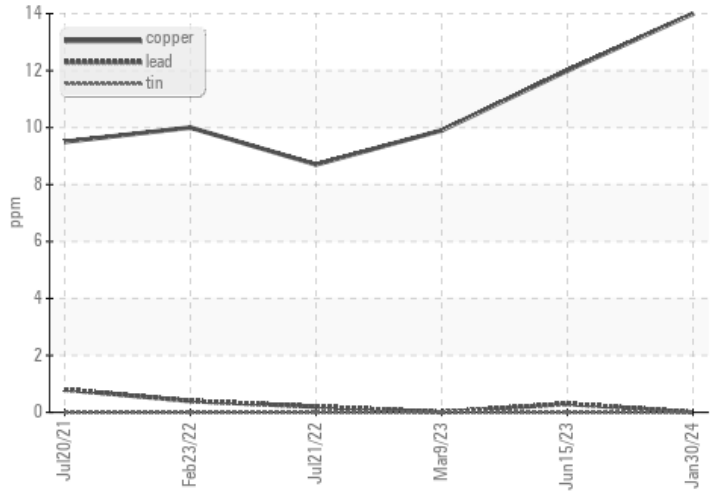
Depot: VOLVO0093
Unique No: 10995722
Signed: Don Baldridge
Report Date: 26 Apr 2024

GRAPHS

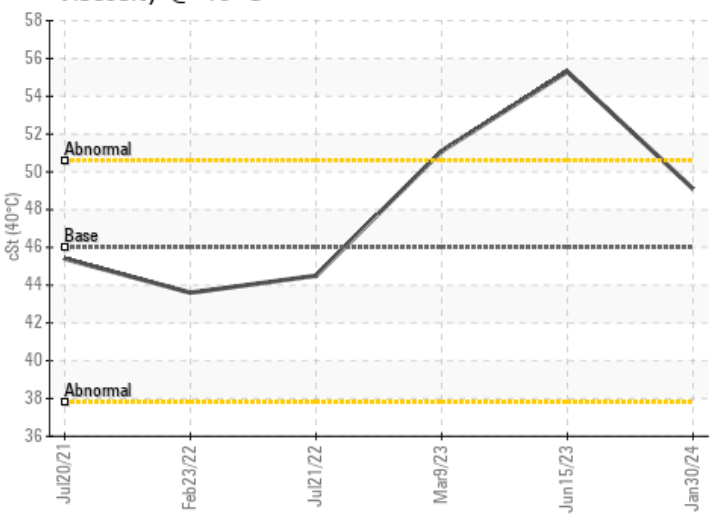
Ferrous Alloys



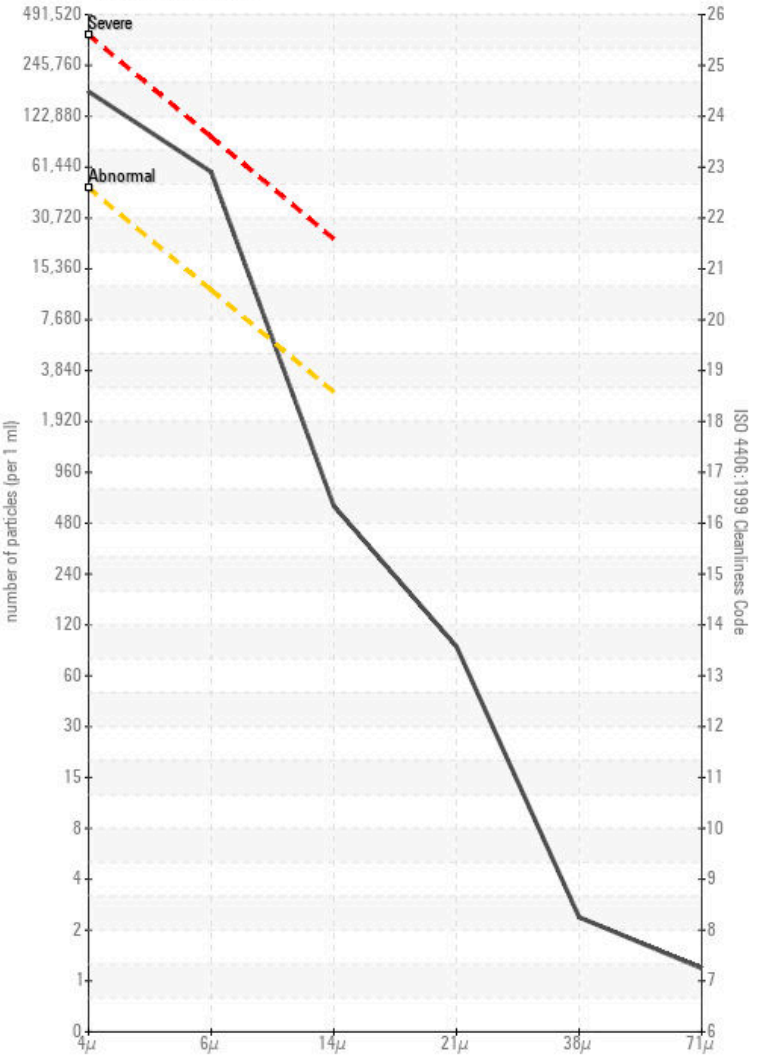
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number