CONSTRUCTION EQUIPMENT
SPM661225 VOLVO L350 1138 - HYDRAULIC SYSTEM

Sample No: VCP442823
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM661225

ALTA EQUIPMENT
5985 COURT STREET ROAD
SYRACUSE, NY
US 13206
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SAMPLE INFORMATION

Sample Number		**VCP442823**	VCP434391	VCP351479	VCP404857
Sample Date		**30 Jan 2024**	04 Oct 2023	11 Aug 2023	25 Apr 2023
Machine Hours		**5328**	4974	4582	3754
Oil Hours		**0**	0	0	0
Oil Changed		**N/A**	N/A	Not Changd	Not Changd
Sample Status		**ABNORMAL**	ATTENTION	ATTENTION	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**40.7**	40.9	40.9	42.6
Acid Number (AN)	mg KOH/g	**1.08**	1.03	1.09	1.64

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**68680**	16523	20437	31209
Particles >6µm		**7444**	3744	3836	1381
Particles >14µm		**90**	125	119	36
ISO 4406:1999 (c)		**23/20/14**	21/19/14	22/19/14	22/18/12
Silicon	ppm	**7**	5	5	7
Sodium	ppm	**3**	<1	0	<1
Potassium	ppm	**2**	<1	2	0

WEAR METALS

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

ADDITIVES

Calcium	ppm	**1781**	1854	1847	2778
Magnesium	ppm	**17**	16	13	24
Zinc	ppm	**935**	873	897	1270
Phosphorus	ppm	**814**	779	765	1040
Barium	ppm	**0**	0	<1	0
Boron	ppm	**14**	15	16	22

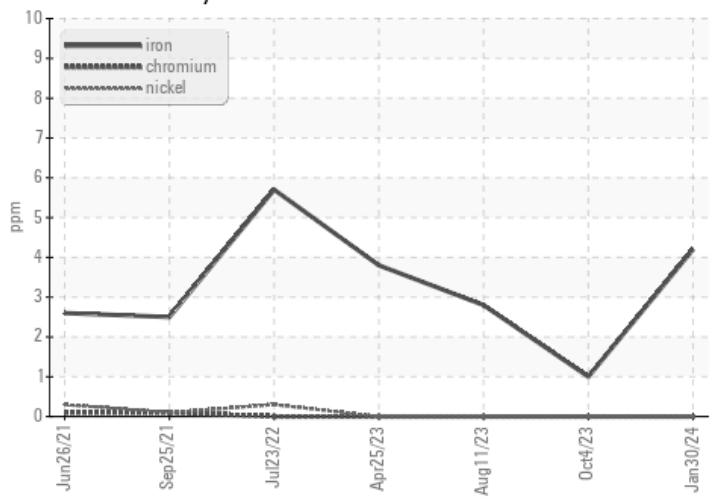
Diagnosis

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.

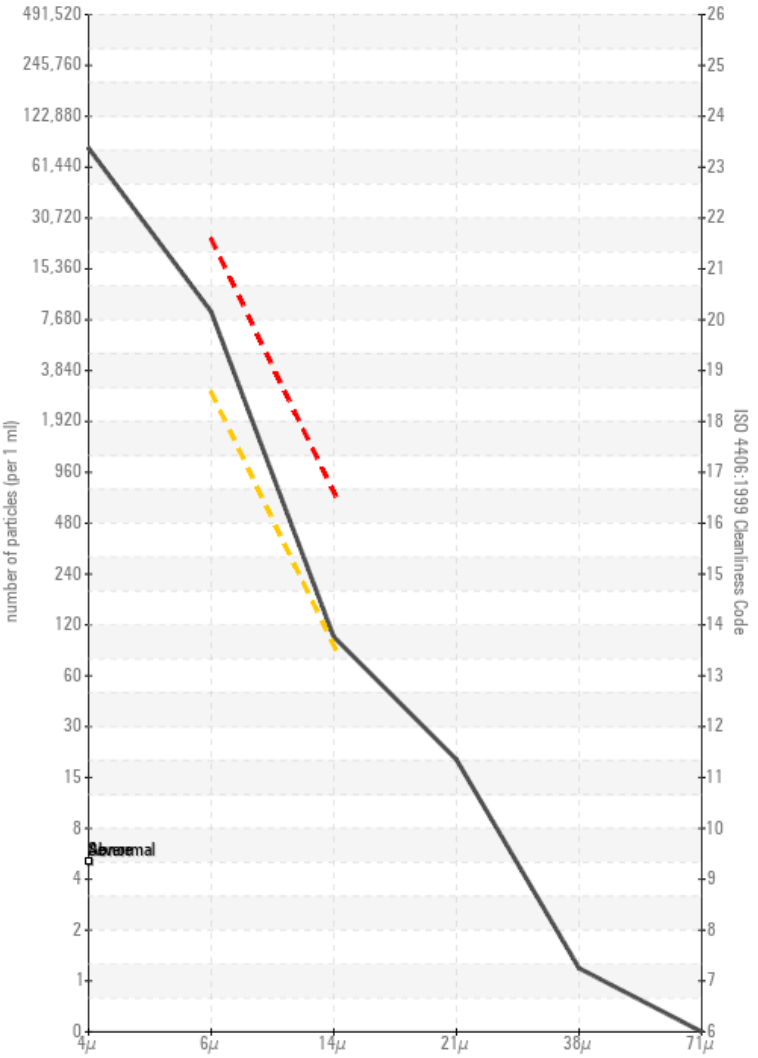
Depot: VOLVO0142
Unique No: 10860315
Signed: Wes Davis
Report Date: 05 Feb 2024

GRAPHS

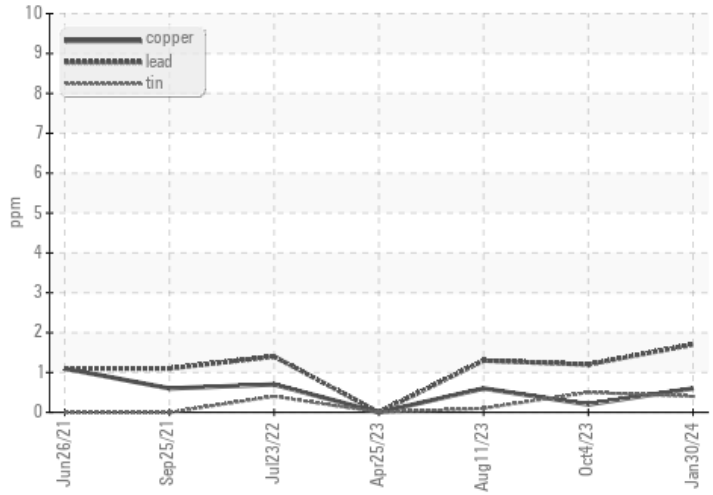
Ferrous Alloys



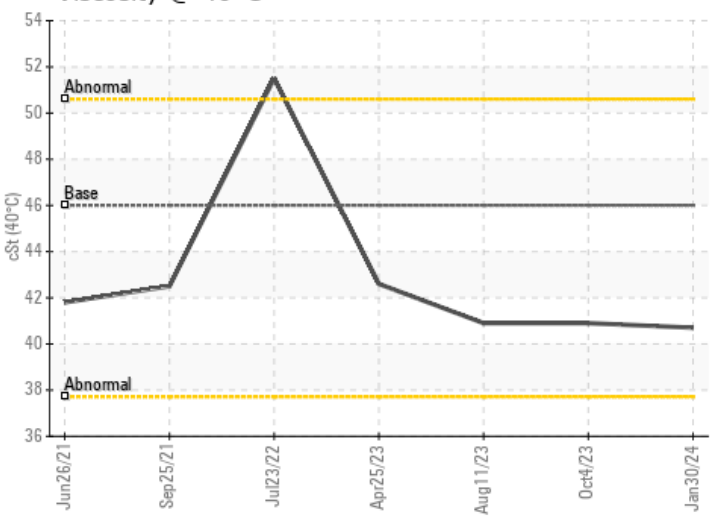
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number