CONSTRUCTION EQUIPMENT

729269 MACK CONCRETE VOLVO L110H 631841 - HYDRAULIC SYSTEM

Sample No: VCP450709
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 729269 MACK CONCRETE

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SAMPLE INFORMATION

Sample Number		**VCP450709**	VCP405595	VCP363644	VCP278752
Sample Date		**11 Jun 2024**	28 Mar 2023	25 Aug 2022	18 Aug 2020
Machine Hours		**13345**	9800	7894	990
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**ABNORMAL**	ABNORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**44.2**	45.1	45.2	49.1
Acid Number (AN)	mg KOH/g	**0.55**	0.51	0.56	0.923

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**102190**	35082	6128	5708
Particles >6µm		▲ **34908**	4023	497	540
Particles >14µm		▲ **1572**	52	28	22
ISO 4406:1999 (c)		**24/22/18**	22/19/13	20/16/12	20/16/12
Silicon	ppm	**5**	▲ 26	5	4
Sodium	ppm	**5**	4	5	5
Potassium	ppm	**6**	11	5	11

WEAR METALS

Iron	ppm	**7**	43	6	3
Copper	ppm	**3**	3	3	1
Lead	ppm	**5**	6	4	2
Tin	ppm	**0**	<1	<1	0
Aluminum	ppm	**<1**	3	<1	0
Chromium	ppm	**<1**	2	<1	<1
Molybdenum	ppm	**51**	9	9	9
Nickel	ppm	**0**	<1	0	0
Titanium	ppm	**<1**	<1	0	<1
Silver	ppm	**0**	0	<1	<1
Manganese	ppm	**0**	<1	<1	<1
Vanadium	ppm	**<1**	0	0	0

ADDITIVES

Calcium	ppm	**832**	1107	1057	1021
Magnesium	ppm	**26**	46	46	43
Zinc	ppm	**591**	665	648	635
Phosphorus	ppm	**528**	586	558	541
Barium	ppm	**0**	0	1	0
Boron	ppm	**14**	21	13	34

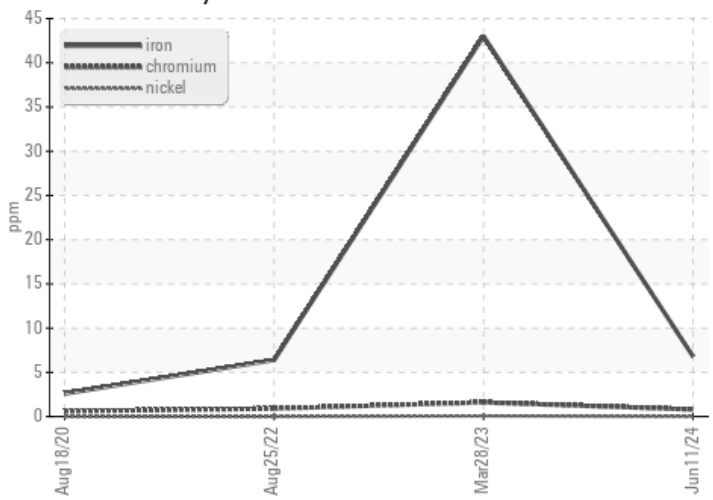
Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

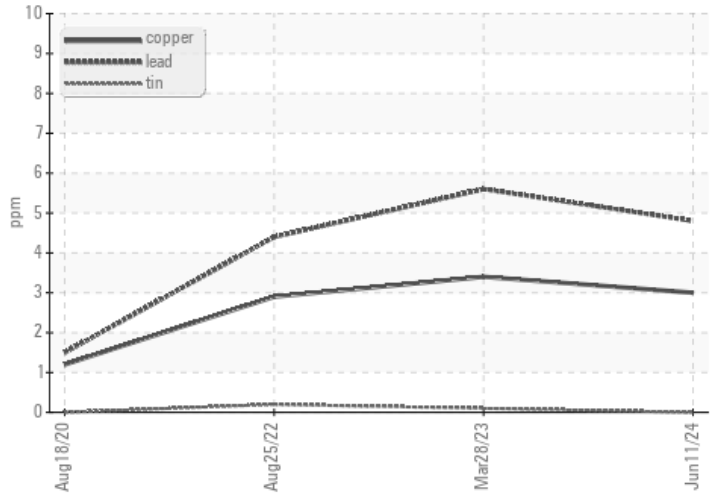
Depot: VOLVO0093
Unique No: 11076121
Signed: Don Baldridge
Report Date: 15 Jun 2024

GRAPHS

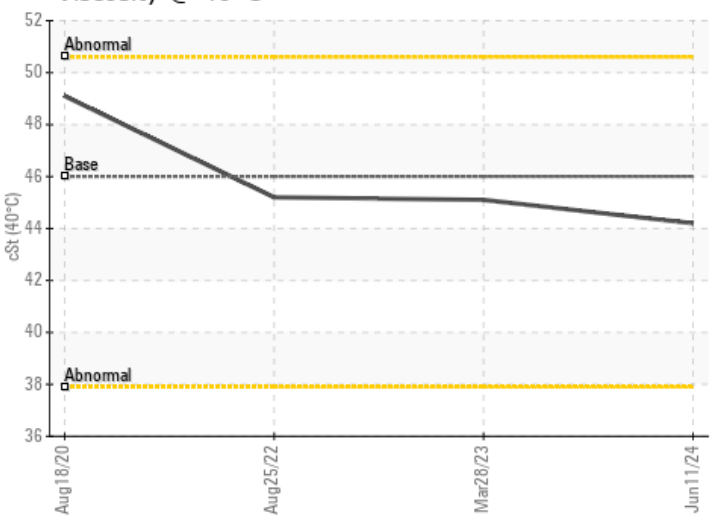
Ferrous Alloys



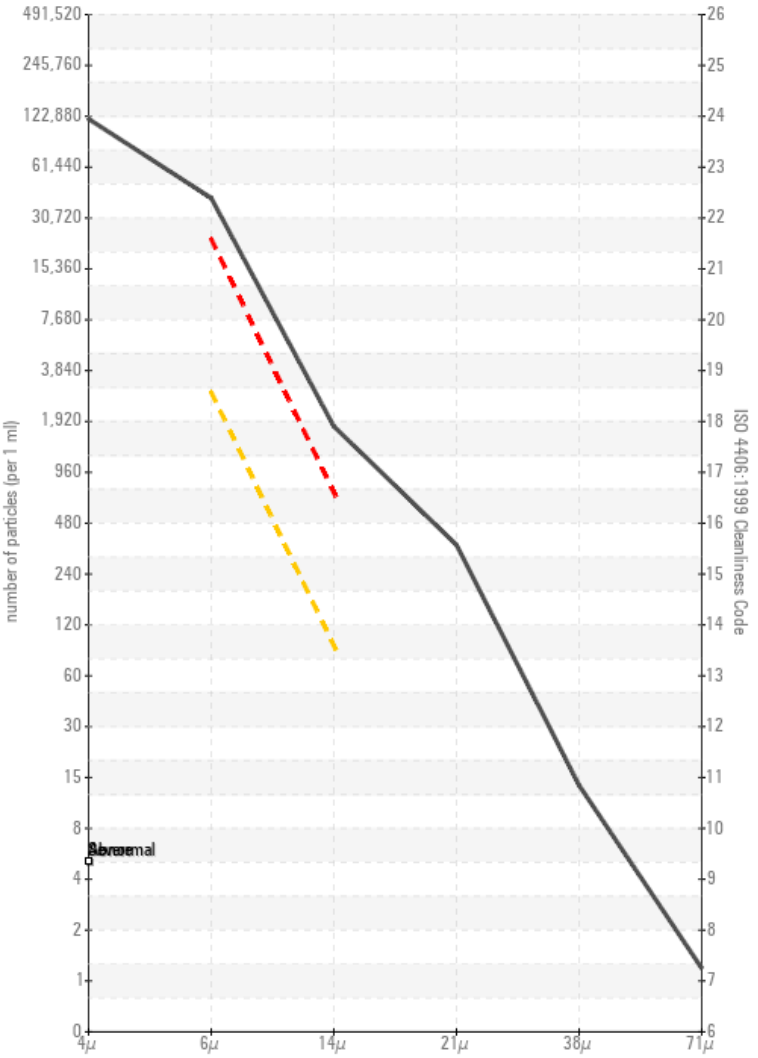
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number