



CONSTRUCTION EQUIPMENT

729259 MACK CONCRETE VOLVO L120H 632983 - HYDRAULIC SYSTEM



Sample No: VCP454576
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 729259 MACK CONCRETE



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SAMPLE INFORMATION

Sample Number	VCP454576	VCP422282	VCP421288	VCP399153
Sample Date	10 Jun 2024	18 May 2023	27 Mar 2023	11 Feb 2023
Machine Hours	10911	7018	6455	5940
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	SEVERE	ATTENTION	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	41.8	42.0	43.0	42.7
Acid Number (AN)	mg KOH/g	0.29	0.28	0.30	0.28



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 53258	● 5923	▲ 16826	■ 2077
Particles >6µm		▲ 13471	■ 1085	▲ 4178	■ 440
Particles >14µm		▲ 477	■ 51	■ 140	■ 20
ISO 4406:1999 (c)		23/21/16	20/17/13	21/19/14	18/16/11
Silicon	ppm	4	3	5	3
Sodium	ppm	3	2	1	1
Potassium	ppm	0	1	<1	0



WEAR METALS

Iron	ppm	14	8	9	8
Copper	ppm	3	3	3	3
Lead	ppm	2	2	2	1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	<1	<1	0
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	5	1	<1	<1
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	66	93	67	63
Magnesium	ppm	0	11	3	2
Zinc	ppm	425	427	449	390
Phosphorus	ppm	334	351	367	318
Barium	ppm	0	0	<1	0
Boron	ppm	0	0	0	0

Diagnosis

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation. All 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: VOLVO0093
Unique No: 11076120
Signed: Wes Davis
Report Date: 14 Jun 2024

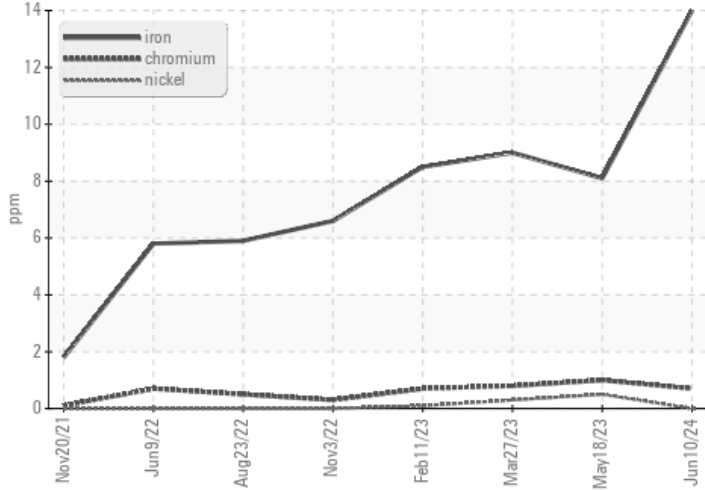


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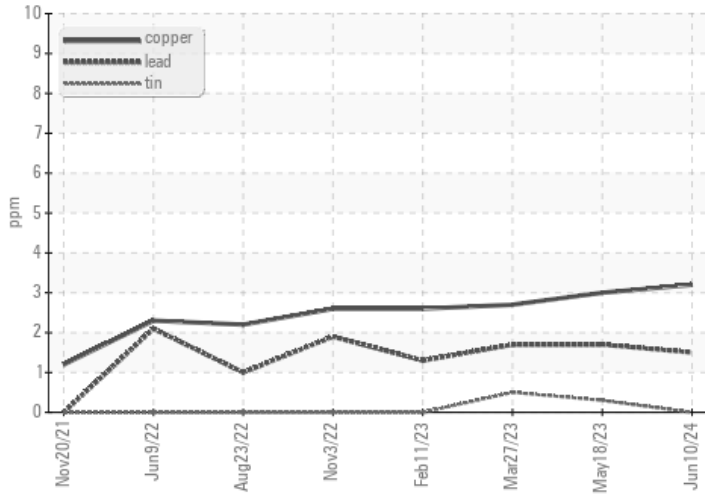


GRAPHS

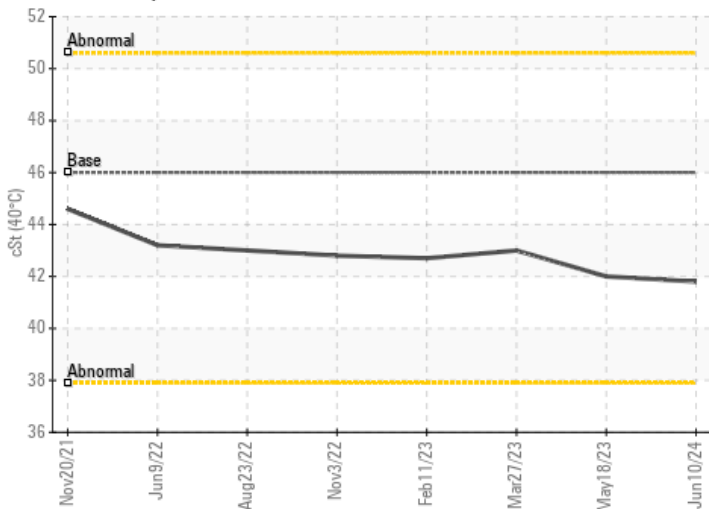
Ferrous Alloys



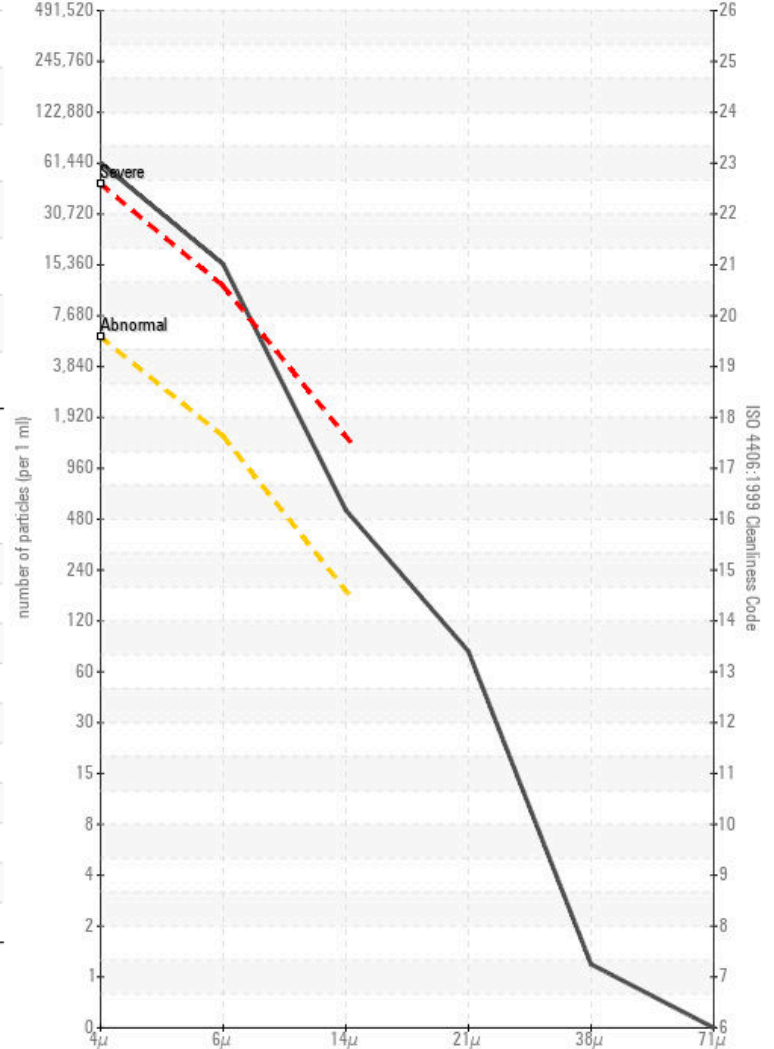
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

