



CONSTRUCTION EQUIPMENT

VOLVO L120H 632959 - HYDRAULIC SYSTEM



Sample No: VCP434496

Oil Type: BP AW 46

Job No:



SAMPLE INFORMATION

Sample Number	VCP434496	VCP383197	VCP384076	VCP350971
Sample Date	14 Jun 2024	25 May 2023	19 Oct 2022	16 Jul 2022
Machine Hours	4230	2670	1660	1120
Oil Hours	1000	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ATTENTION	NORMAL	NORMAL

LEONARDS CONTRACTING

30850 STEPHENSON HWY
MADISON HEIGHTS, MI
US 48071

Contact: LARRY SCHRADER
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OIL CONDITION

Visc @ 40°C	cSt	41.5	42.4	42.9	43.1
Acid Number (AN)	mg KOH/g	0.37	0.26	0.32	0.25



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		9099	7312	2549	684
Particles >6µm		3074	1774	435	132
Particles >14µm		145	178	22	21
ISO 4406:1999 (c)		20/19/14	20/18/15	19/16/12	17/14/12
Silicon	ppm	5	2	2	4
Sodium	ppm	0	2	0	1
Potassium	ppm	2	2	0	0

Diagnosis

The filter change at the time of sampling has been noted. 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 system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	10	4	3	3
Copper	ppm	2	<1	1	1
Lead	ppm	<1	2	<1	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	59	63	60	78
Magnesium	ppm	5	4	3	4
Zinc	ppm	515	476	436	506
Phosphorus	ppm	378	353	331	428
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	2

Depot: LEOMAD
Unique No: 11087440
Signed: Wes Davis
Report Date: 20 Jun 2024

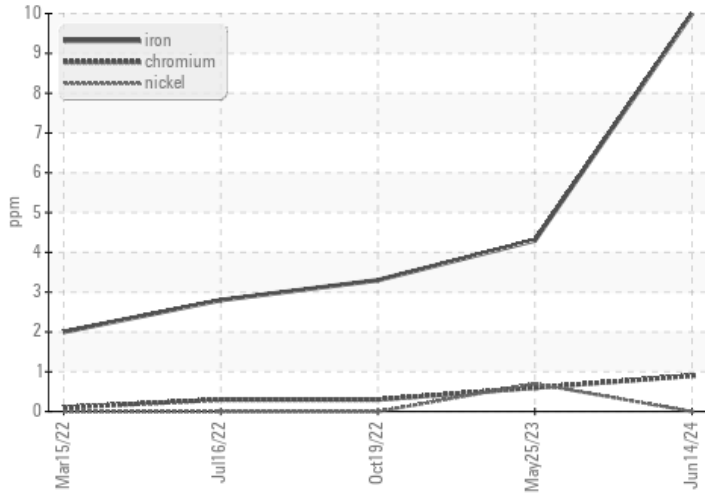


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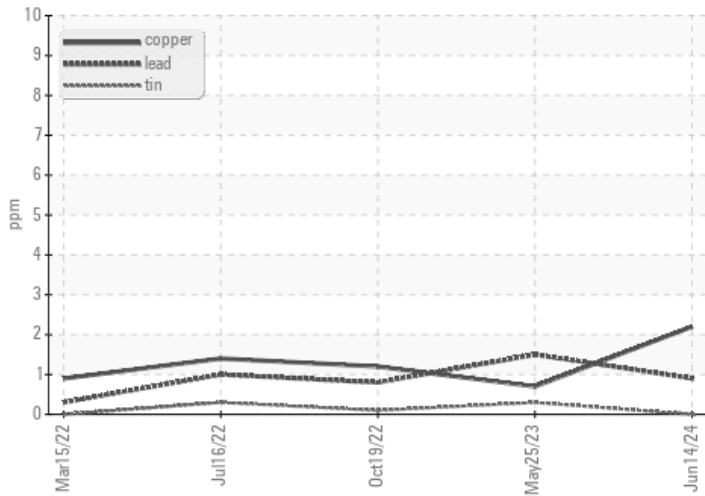


VOLVO GRAPHS

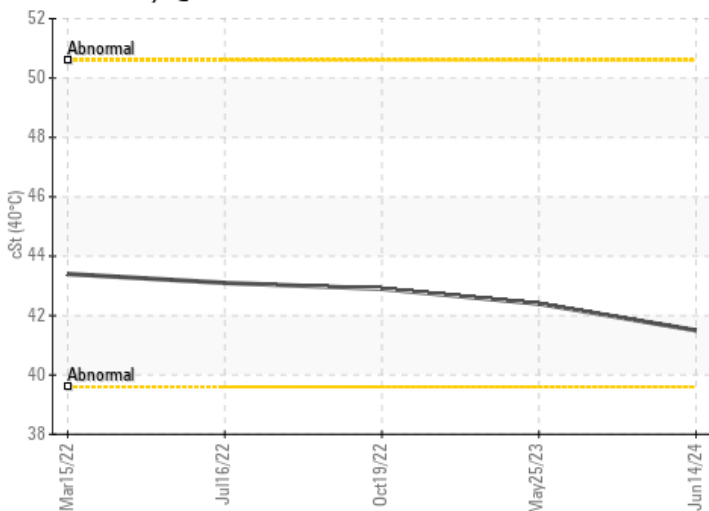
Ferrous Alloys



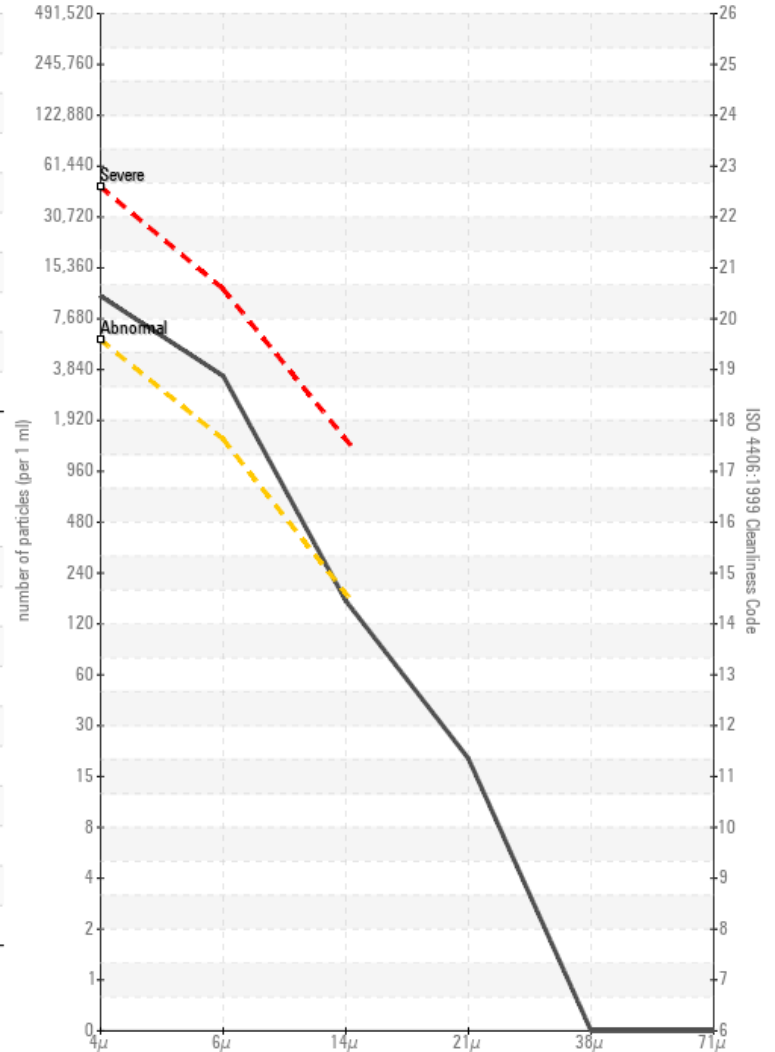
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

