



CONSTRUCTION EQUIPMENT

2014 VOLVO L120H 632190 - HYDRAULIC SYSTEM



Sample No: VCP434493
Oil Type: CASTROL HD AW ISO 46
Job No: 2014



SAMPLE INFORMATION

Sample Number	VCP434493	VCP383280	VCP382924	VCP385021
Sample Date	20 Jun 2024	12 Oct 2023	13 Jun 2023	05 Jan 2023
Machine Hours	9575	8550	8035	7550
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ATTENTION	NORMAL

LEONARDS CONTRACTING
 30850 STEPHENSON HWY
 MADISON HEIGHTS, MI
 US 48071
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OIL CONDITION

Visc @ 40°C	cSt	46.4	40.1	39.5	40.3
Acid Number (AN)	mg KOH/g	0.34	0.40	0.39	0.36

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		658	13412	5489	1456
Particles >6µm		188	4172	1850	124
Particles >14µm		18	288	132	10
ISO 4406:1999 (c)		17/15/11	21/19/15	20/18/14	18/14/10
Silicon	ppm	<1	7	7	7
Sodium	ppm	<1	5	6	6
Potassium	ppm	1	1	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	0	33	33	30
Copper	ppm	<1	9	9	9
Lead	ppm	0	1	<1	1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	0	2	<1	2
Chromium	ppm	0	1	1	1
Molybdenum	ppm	<1	<1	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	63	40	45	50
Magnesium	ppm	8	0	0	0
Zinc	ppm	315	381	391	373
Phosphorus	ppm	250	287	313	306
Barium	ppm	0	0	0	0
Boron	ppm	<1	0	0	0

Depot: LEOMAD
Unique No: 11099328
Signed: Wes Davis
Report Date: 27 Jun 2024

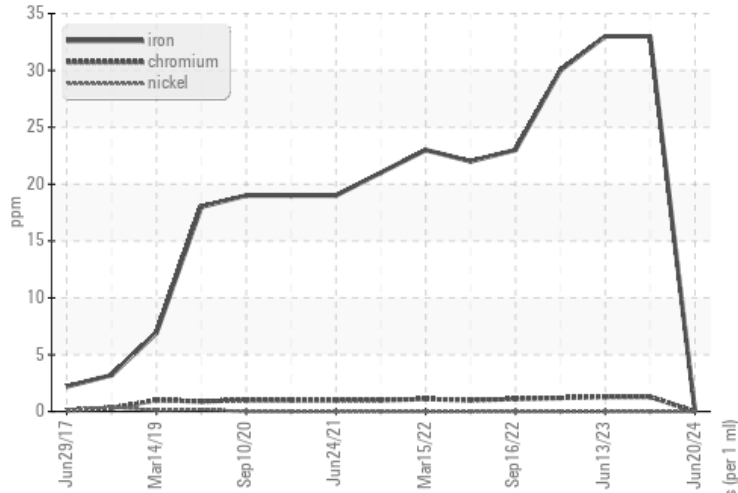


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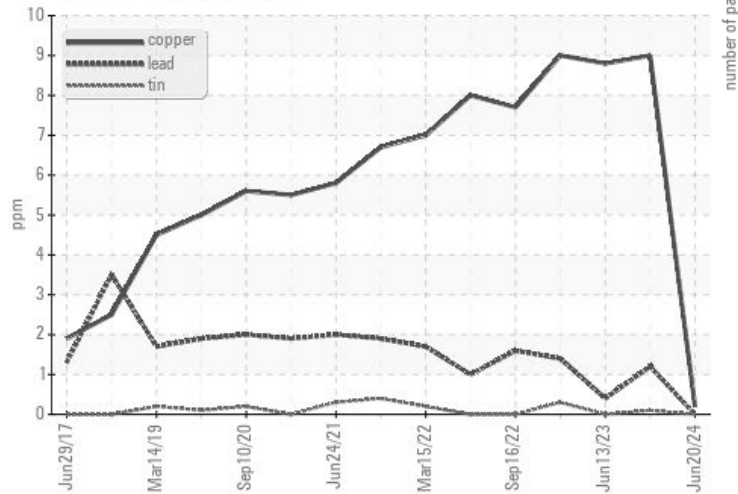


GRAPHS

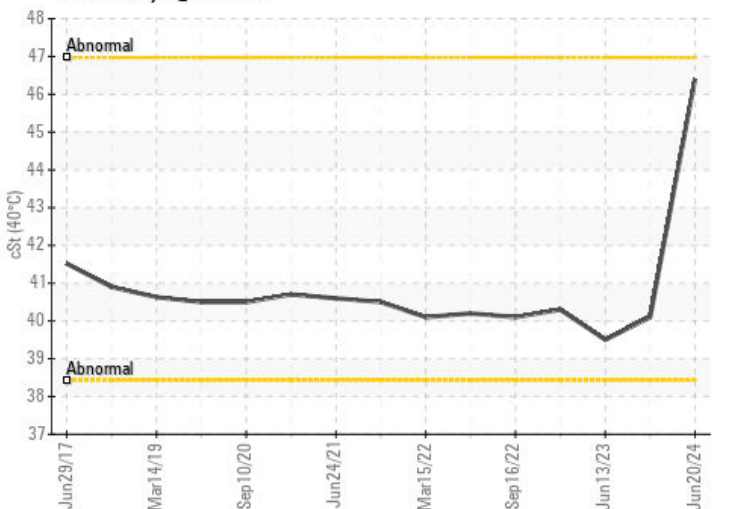
Ferrous Alloys



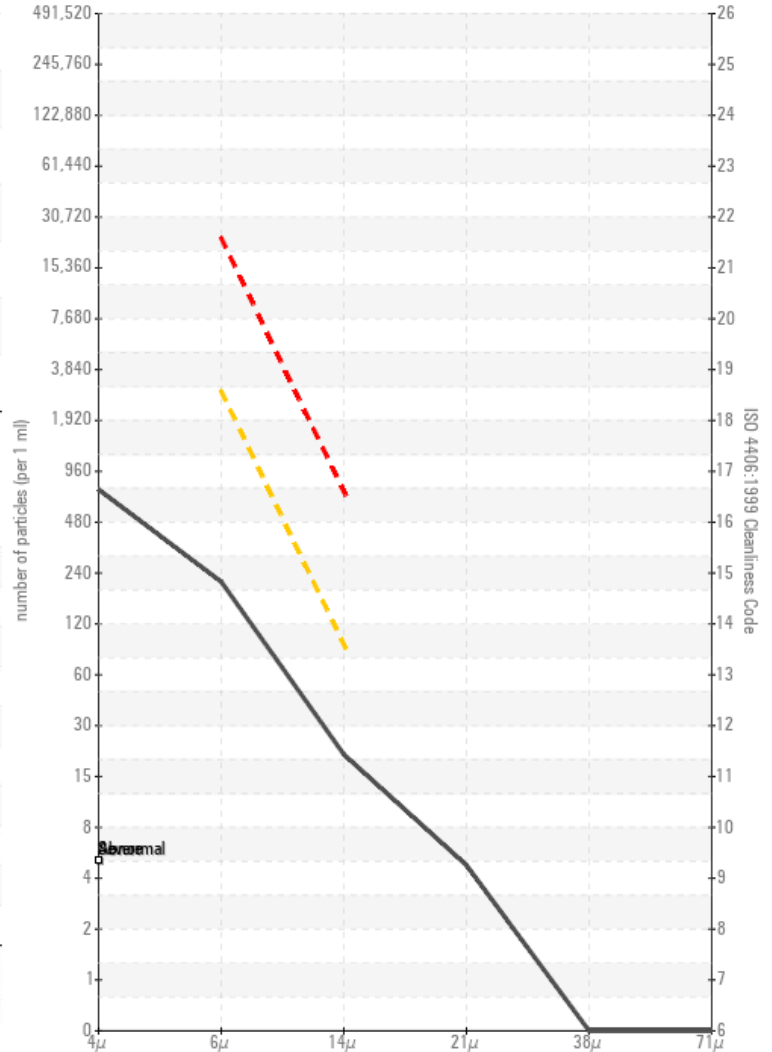
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

