



CONSTRUCTION EQUIPMENT

2010 VOLVO L120G 31397 - HYDRAULIC SYSTEM



Sample No: VCP398215
Oil Type: CASTROL HD AW ISO 46
Job No: 2010



SAMPLE INFORMATION

Sample Number	VCP398215	VCP396805	VCP374949	VCP341660
Sample Date	11 Sep 2023	23 May 2023	21 Sep 2022	06 May 2022
Machine Hours	11575	11150	10255	9820
Oil Hours	0	0	0	500
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

LEONARDS CONTRACTING
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 MADISON HEIGHTS, MI
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OIL CONDITION

Visc @ 40°C	cSt	43.4	39.5	39.3	39.2
Acid Number (AN)	mg KOH/g	0.16	0.39	0.31	0.39

CONTAMINATION

Particles >4µm		14629	5558	1041	6879
Particles >6µm		5722	1333	157	628
Particles >14µm		354	71	15	35
ISO 4406:1999 (c)		21/20/16	20/18/13	17/14/11	20/16/12
Silicon	ppm	4	15	13	13
Sodium	ppm	2	8	6	6
Potassium	ppm	0	2	0	0

Diagnosis

We recommend you service the filters on this component. 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.

WEAR METALS

Iron	ppm	4	16	13	13
Copper	ppm	2	6	6	6
Lead	ppm	0	2	1	1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	0	4	0	2
Chromium	ppm	<1	2	2	2
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	38	59	51	54
Magnesium	ppm	0	12	0	1
Zinc	ppm	317	392	356	361
Phosphorus	ppm	253	309	296	319
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	2	2

Depot: LEOMAD
Unique No: 10662390
Signed: Don Baldrige
Report Date: 27 Sep 2023

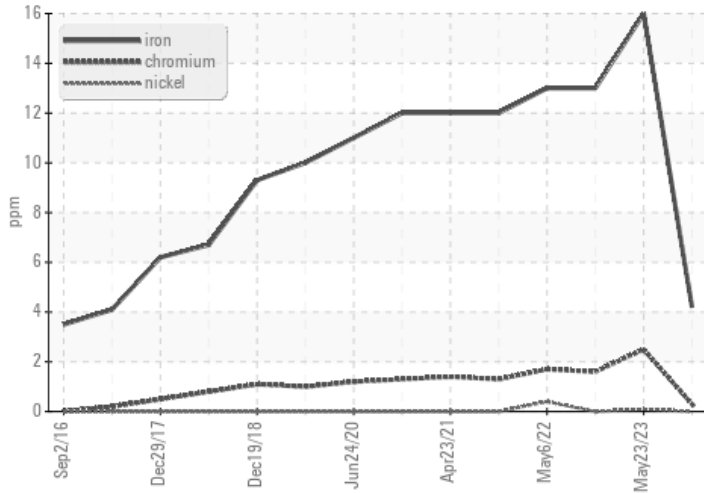


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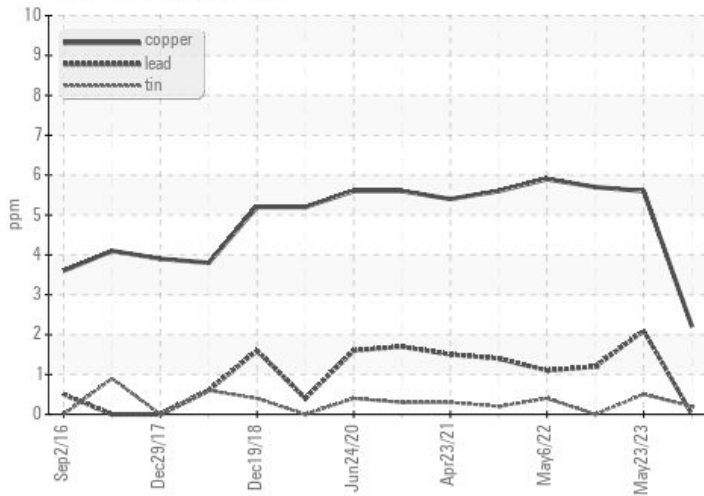


VOLVO GRAPHS

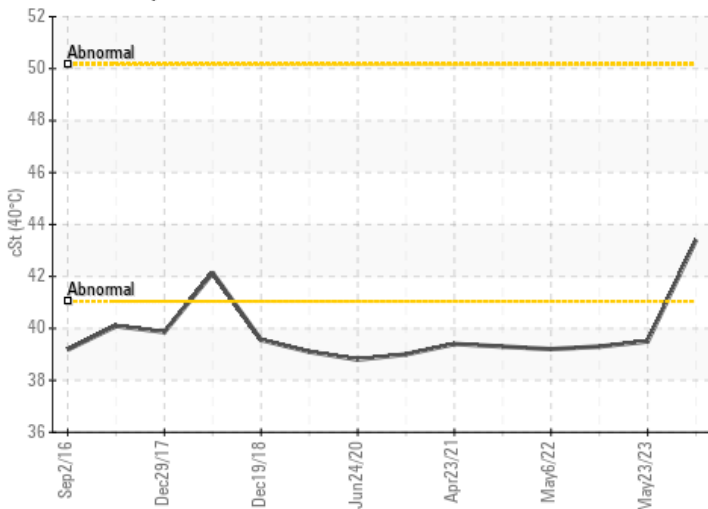
Ferrous Alloys



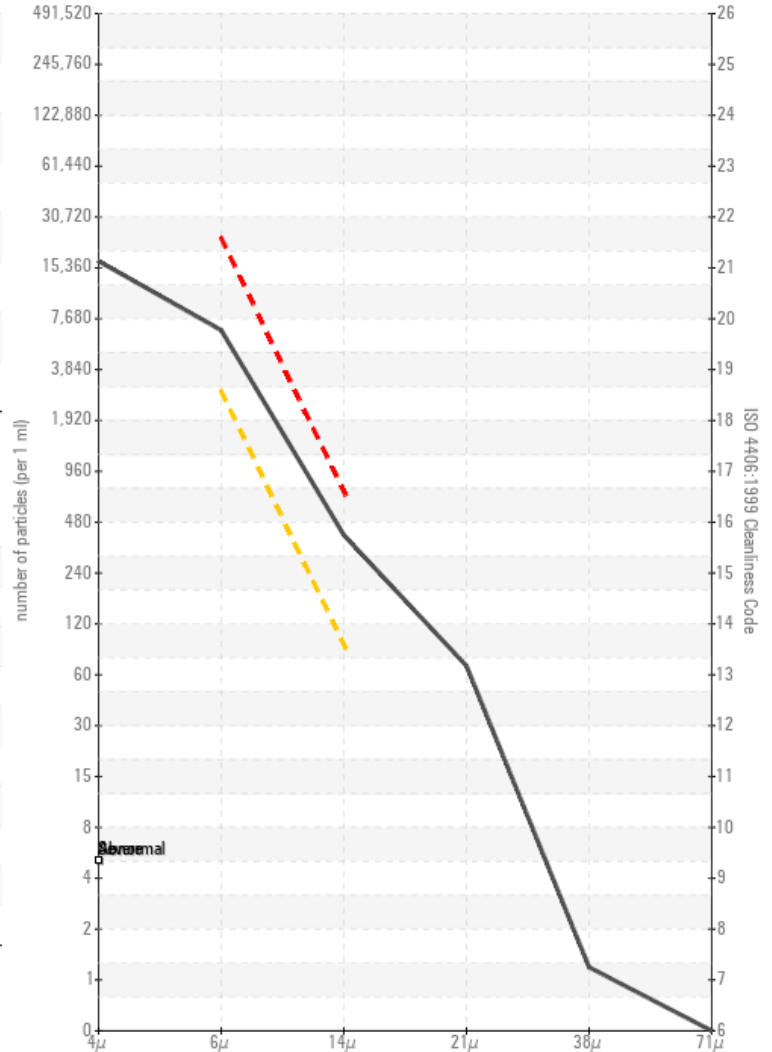
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

