



# CONSTRUCTION EQUIPMENT

## 2009 VOLVO L120G 30761 - HYDRAULIC SYSTEM



**Sample No:** VCP383173

**Oil Type:** CASTROL 46

**Job No:** 2009



### SAMPLE INFORMATION

Sample Number	<b>VCP383173</b>	VCP382896	VCP393194	VCP383914
Sample Date	<b>03 Nov 2023</b>	13 Jun 2023	29 Mar 2023	28 Oct 2022
Machine Hours	<b>13055</b>	12575	12165	11780
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	ATTENTION	ATTENTION	ATTENTION



### LEONARDS CONTRACTING

30850 STEPHENSON HWY  
MADISON HEIGHTS, MI  
US 48071

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.3</b>	42.7	42.5	41.4
Acid Number (AN)	mg KOH/g	<b>0.28</b>	0.34	0.39	0.38



### CONTAMINATION

Water	%	<b>&lt;0.1</b>	<0.1	<0.1	<0.1
Particles >4µm		<b>3366</b>	6213	4668	4049
Particles >6µm		<b>777</b>	1782	1419	1037
Particles >14µm		<b>40</b>	93	113	159
ISO 4406:1999 (c)		<b>19/17/12</b>	20/18/14	19/18/14	19/17/14
Silicon	ppm	<b>4</b>	4	4	8
Sodium	ppm	<b>4</b>	2	0	2
Potassium	ppm	<b>&lt;1</b>	0	1	1

### 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	<b>6</b>	5	5	11
Copper	ppm	<b>2</b>	1	1	3
Lead	ppm	<b>0</b>	0	<1	1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>1</b>	0	2	2
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>&lt;1</b>	0	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>55</b>	87	92	157
Magnesium	ppm	<b>0</b>	0	1	3
Zinc	ppm	<b>313</b>	324	337	392
Phosphorus	ppm	<b>216</b>	268	254	298
Barium	ppm	<b>0</b>	0	<1	2
Boron	ppm	<b>0</b>	0	0	1

**Depot:** LEOMAD  
**Unique No:** 10749851  
**Signed:** Wes Davis  
**Report Date:** 20 Nov 2023

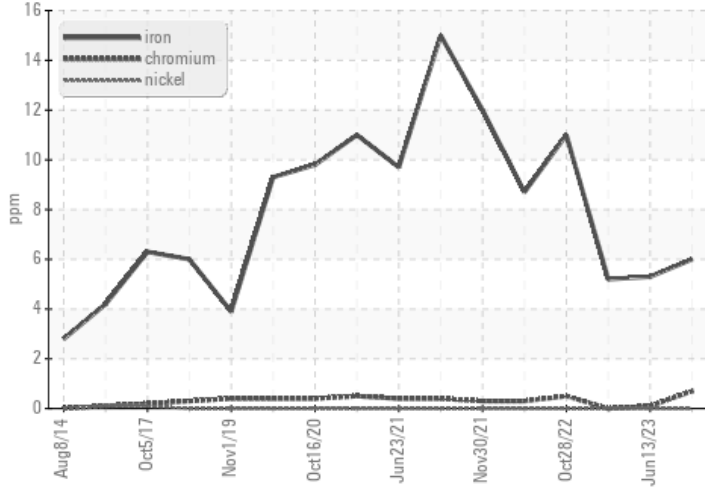


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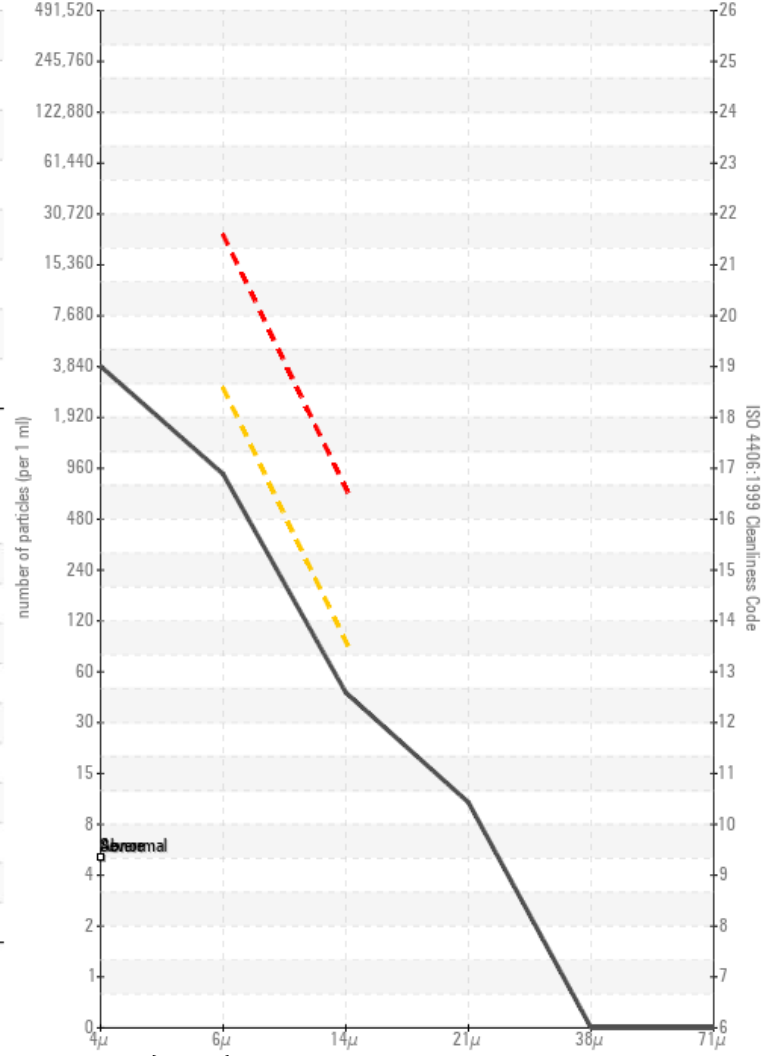


## GRAPHS

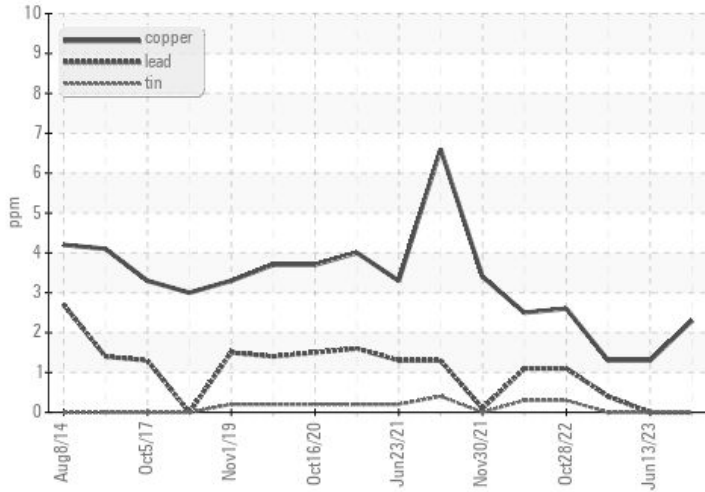
### Ferrous Alloys



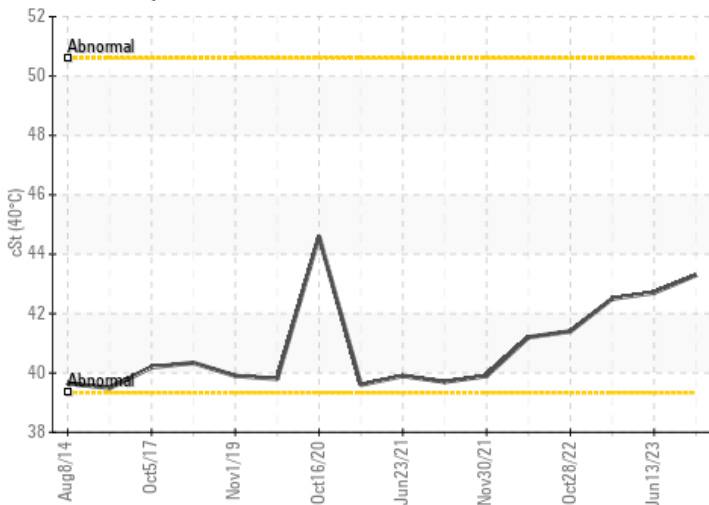
### Particle Count



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

