



CONSTRUCTION EQUIPMENT

2009 VOLVO L120G 30761 - HYDRAULIC SYSTEM



Sample No: VCP434263
Oil Type: CASTROL HD AW ISO 46
Job No: 2009



SAMPLE INFORMATION

Sample Number	VCP434263	VCP383173	VCP382896	VCP393194
Sample Date	24 Apr 2024	03 Nov 2023	13 Jun 2023	29 Mar 2023
Machine Hours	13470	13055	12575	12165
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ATTENTION	NORMAL	ATTENTION	ATTENTION

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

Visc @ 40°C	cSt	43.5	43.3	42.7	42.5
Acid Number (AN)	mg KOH/g	0.32	0.28	0.34	0.39

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		6701	3366	6213	4668
Particles >6µm		1998	777	1782	1419
Particles >14µm		108	40	93	113
ISO 4406:1999 (c)		20/18/14	19/17/12	20/18/14	19/18/14
Silicon	ppm	3	4	4	4
Sodium	ppm	3	4	2	0
Potassium	ppm	0	<1	0	1

Diagnosis
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate 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	6	5	5
Copper	ppm	1	2	1	1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	1	0	2
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	<1	<1	<1	0

ADDITIVES

Calcium	ppm	96	55	87	92
Magnesium	ppm	<1	0	0	1
Zinc	ppm	337	313	324	337
Phosphorus	ppm	273	216	268	254
Barium	ppm	0	0	0	<1
Boron	ppm	0	0	0	0

Depot: LEOMAD
Unique No: 11007535
Signed: Don Baldrige
Report Date: 06 May 2024

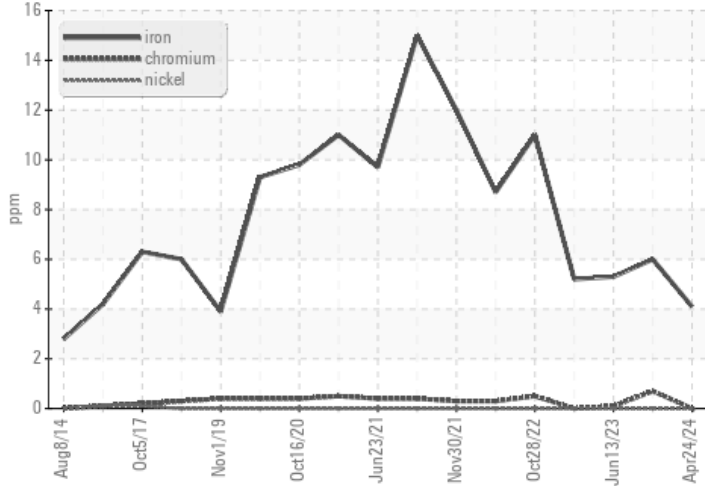


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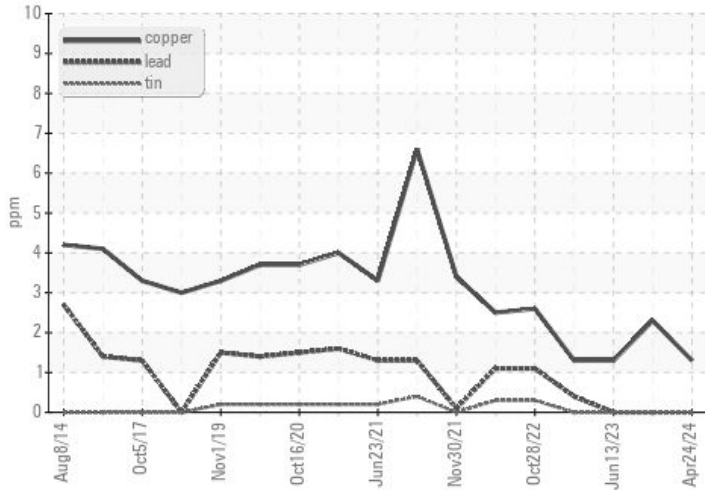


GRAPHS

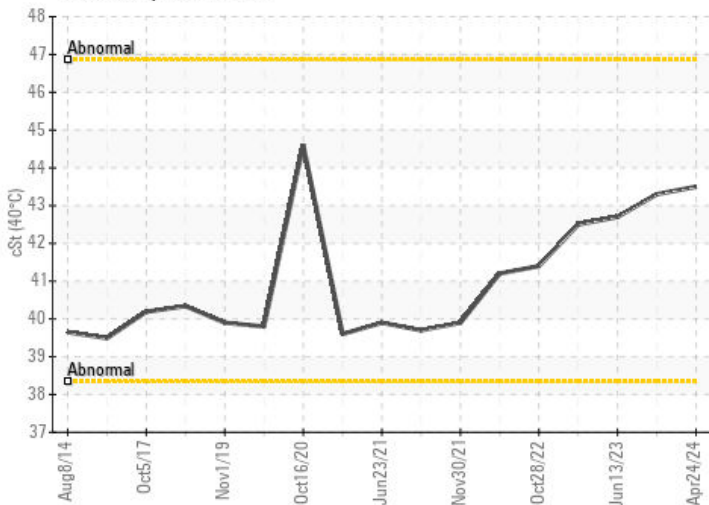
Ferrous Alloys



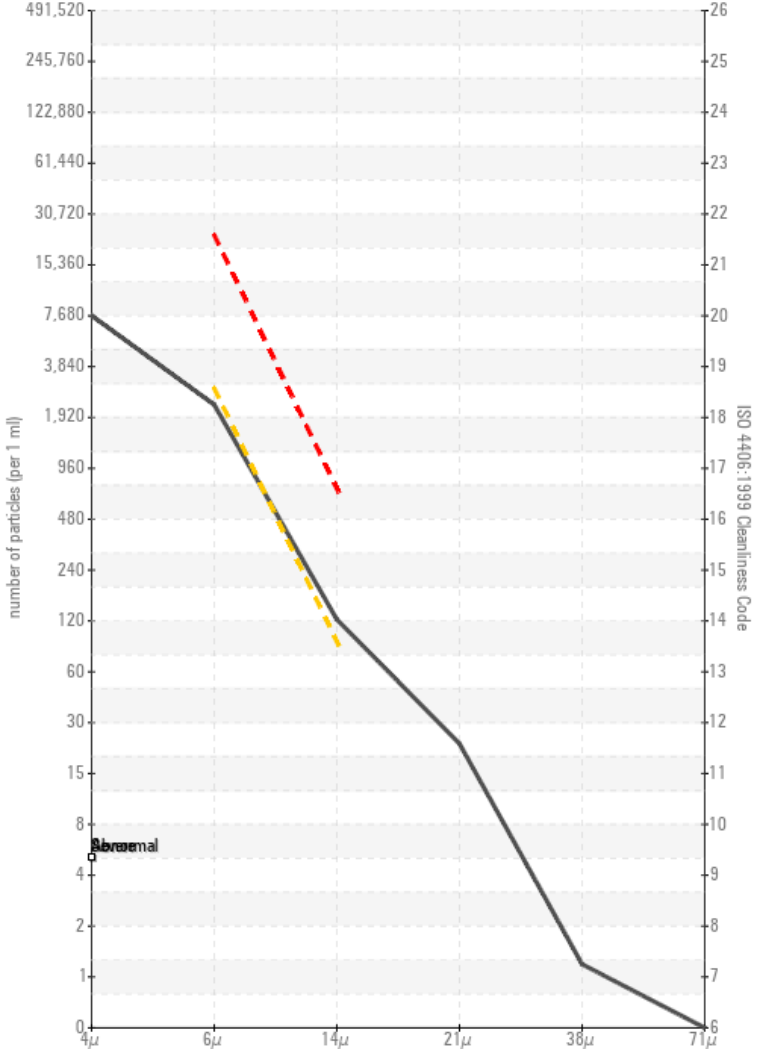
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

