



CONSTRUCTION EQUIPMENT

2011 VOLVO L120G 31453 - HYDRAULIC SYSTEM



Sample No: VCP401525
Oil Type: CASTROL HD AW ISO 46
Job No: 2011



SAMPLE INFORMATION

Sample Number	VCP401525	VCP393292	VCP350859	VCP379145
Sample Date	22 Aug 2023	27 Apr 2023	13 Dec 2022	19 Aug 2022
Machine Hours	12540	12120	11650	11150
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	NORMAL

LEONARDS CONTRACTING
 30850 STEPHENSON HWY
 MADISON HEIGHTS, MI
 US 48071
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 F: x:

OIL CONDITION

Visc @ 40°C	cSt	40.5	42.0	42.0	41.9
Acid Number (AN)	mg KOH/g	0.29	0.29	0.35	0.33

CONTAMINATION

Particles >4µm		11029	12025	22176	2611
Particles >6µm		2853	3542	5756	355
Particles >14µm		97	277	259	23
ISO 4406:1999 (c)		21/19/14	21/19/15	22/20/15	19/16/12
Silicon	ppm	10	7	8	9
Sodium	ppm	<1	4	3	5
Potassium	ppm	1	<1	1	0

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	9	6	8	8
Copper	ppm	4	3	4	4
Lead	ppm	<1	0	<1	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	2	3	2
Chromium	ppm	1	<1	1	<1
Molybdenum	ppm	<1	0	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	45	36	46	45
Magnesium	ppm	2	4	2	0
Zinc	ppm	337	293	353	327
Phosphorus	ppm	261	243	262	267
Barium	ppm	2	0	0	0
Boron	ppm	0	0	<1	<1

Depot: LEOMAD
Unique No: 10632720
Signed: Doug Bogart
Report Date: 07 Sep 2023

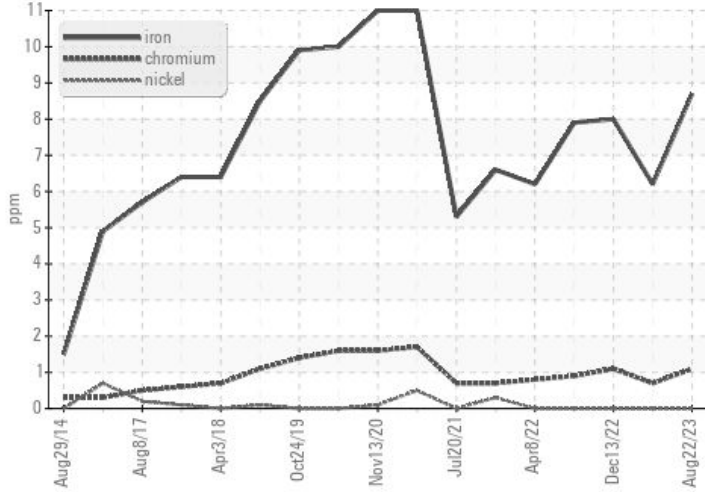


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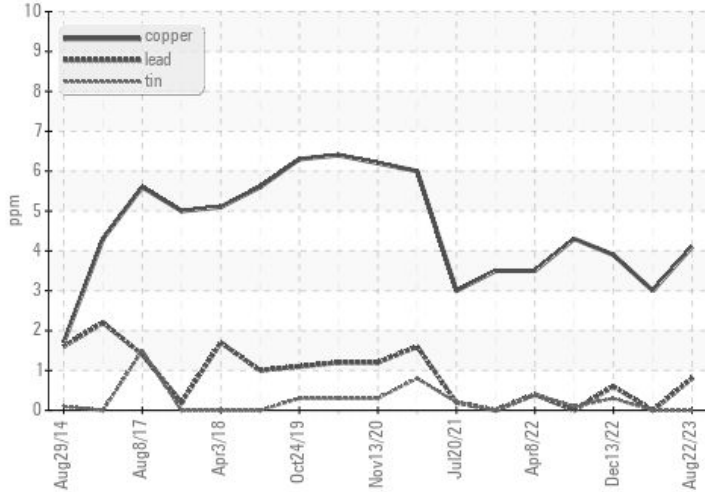


GRAPHS

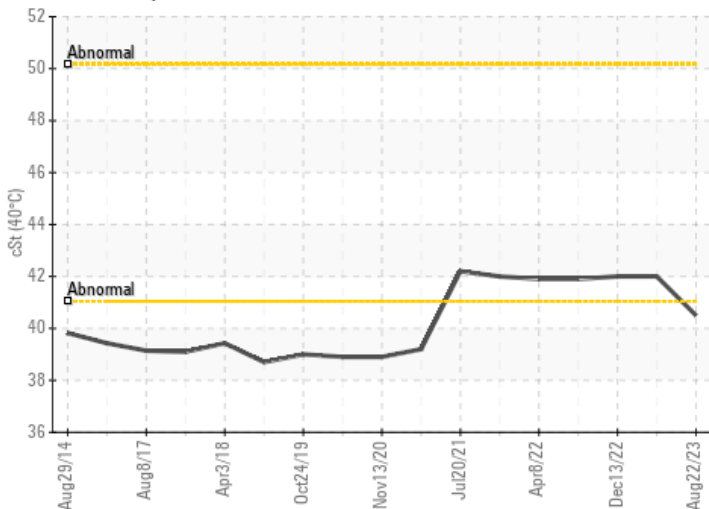
Ferrous Alloys



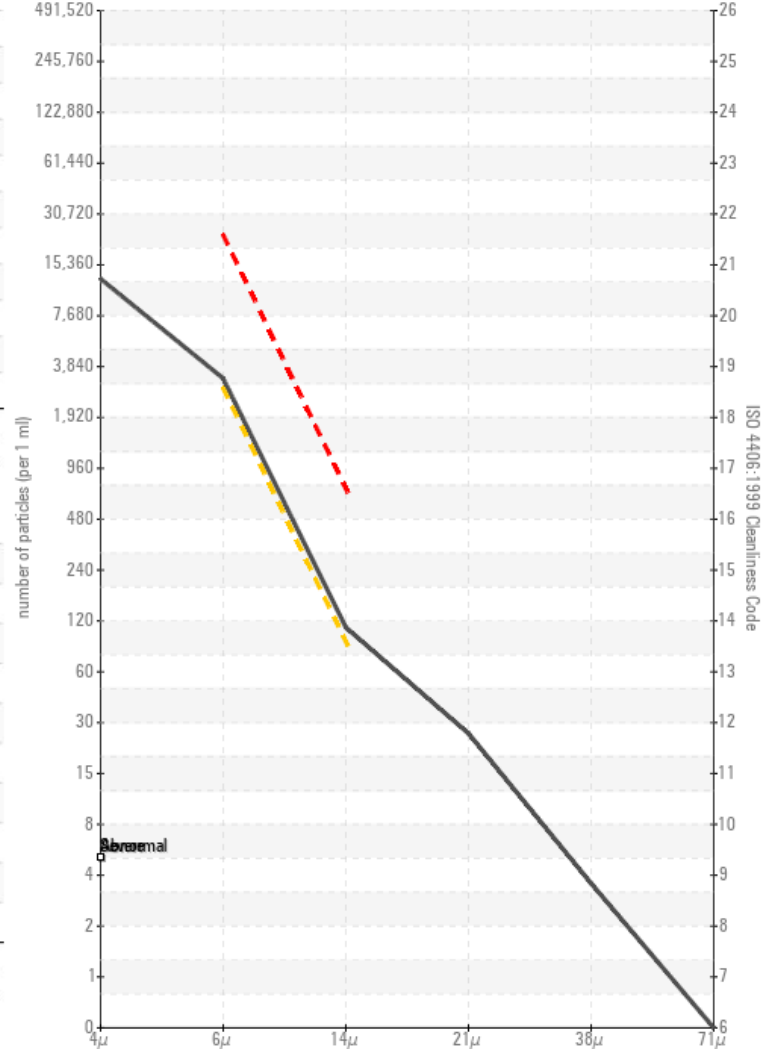
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

