



CONSTRUCTION EQUIPMENT

A12361 VOLVO L60H 622780 - HYDRAULIC SYSTEM



Sample No: VCP438196
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A12361



SAMPLE INFORMATION

Sample Number	VCP438196	VCP431246	VCP398881	VCP400356
Sample Date	27 Mar 2024	13 Nov 2023	05 May 2023	20 Dec 2022
Machine Hours	6530	5415	3830	2340
Oil Hours	3000	1000	3830	2340
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

COVANTA METAL MARKETING LLC
 500 MIDDLE DR
 FAIRLESS HILLS, PA
 US 19030
 Contact: J.P.

OIL CONDITION

Visc @ 40°C	cSt	43.7	43.0	41.4	41.9
Acid Number (AN)	mg KOH/g	0.36	0.36	0.35	0.35

T:
F:

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		7483	---	1002	5781
Particles >6µm		2461	---	197	1231
Particles >14µm		237	---	7	69
ISO 4406:1999 (c)		20/18/15	---	17/15/10	20/17/13
Silicon	ppm	1	3	3	3
Sodium	ppm	<1	0	<1	<1
Potassium	ppm	0	2	0	0

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. 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	1	6	9	7
Copper	ppm	0	2	2	3
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	0	2	3	<1
Chromium	ppm	0	<1	1	<1
Molybdenum	ppm	3	8	<1	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	184	155	63	64
Magnesium	ppm	48	76	4	3
Zinc	ppm	456	474	446	425
Phosphorus	ppm	367	335	349	337
Barium	ppm	0	0	0	0
Boron	ppm	10	16	0	0

Depot: COVFAI
Unique No: 10968964
Signed: Don Baldrige
Report Date: 12 Apr 2024

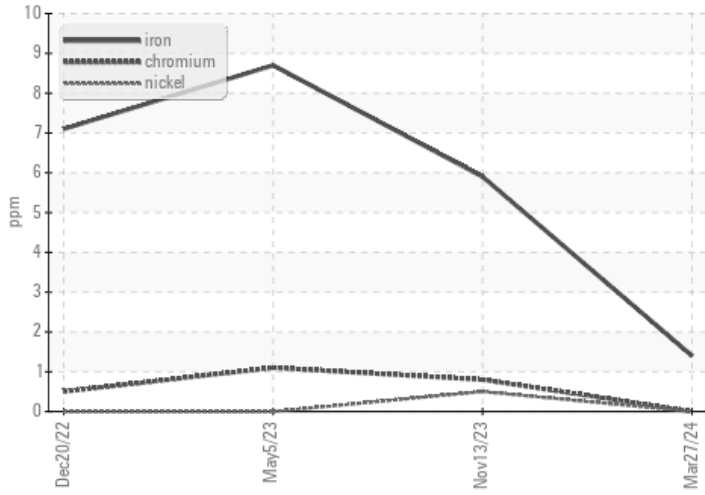


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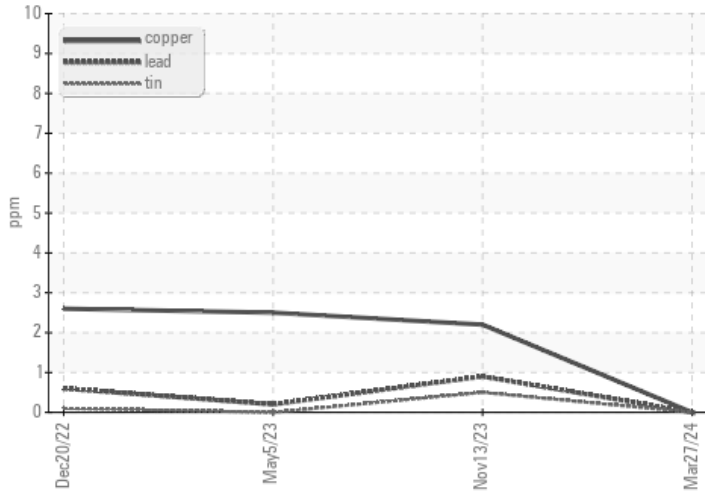


GRAPHS

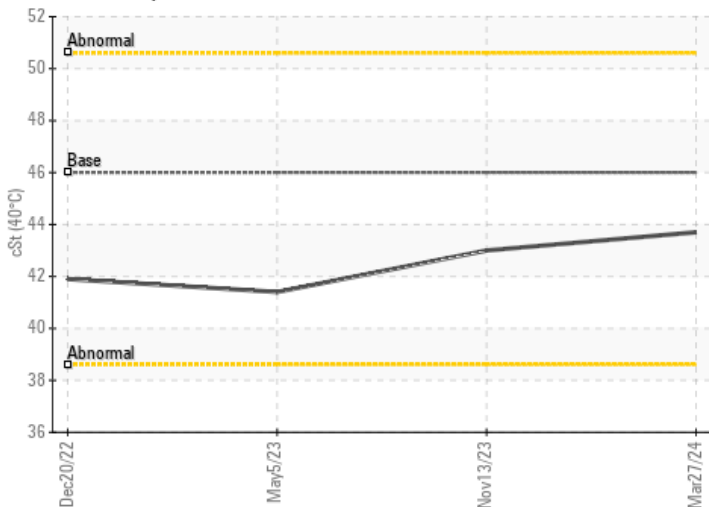
Ferrous Alloys



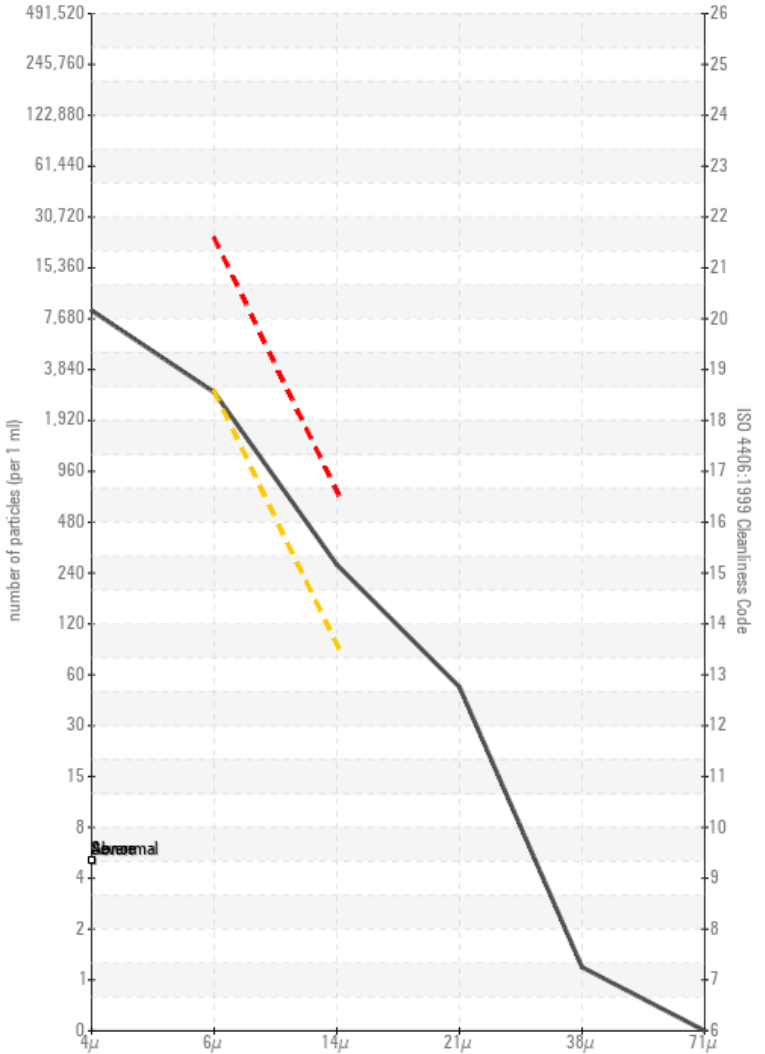
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

