



CONSTRUCTION EQUIPMENT

A11313 VOLVO L110F 4840 - HYDRAULIC SYSTEM



Sample No: VCP430664
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A11313



SAMPLE INFORMATION

Sample Number	VCP430664	VCP307359	VCP299976	VCP264910
Sample Date	18 Oct 2023	02 Jun 2021	13 Jan 2021	24 Jun 2020
Machine Hours	27975	26458	26099	25689
Oil Hours	2000	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	N/A
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	ABNORMAL

COVANTA INC
 1911 RIVER RD
 BAINBRIDGE, PA
 US 17502
 Contact: RON HENDERSHOT
 rhendershot@covantaenergy.com
 T: (717)426-4938
 F: (717)426-1970

OIL CONDITION

Visc @ 40°C	cSt	42.8	46.1	43.6	42.8
Acid Number (AN)	mg KOH/g	0.26	0.344	0.311	0.351

CONTAMINATION

Particles >4µm		18214	34236	13915	22366
Particles >6µm		2859	7735	2501	6598
Particles >14µm		176	215	129	581
ISO 4406:1999 (c)		21/19/15	22/20/15	21/19/14	22/20/16
Silicon	ppm	3	2	2	3
Sodium	ppm	0	<1	0	<1
Potassium	ppm	1	<1	0	<1

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

WEAR METALS

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

ADDITIVES

Calcium	ppm	86	330	68	59
Magnesium	ppm	5	45	2	3
Zinc	ppm	449	505	451	384
Phosphorus	ppm	347	390	355	298
Barium	ppm	3	0	0	0
Boron	ppm	<1	22	6	<1

Depot: COVBAI
Unique No: 10711769
Signed: Wes Davis
Report Date: 26 Oct 2023

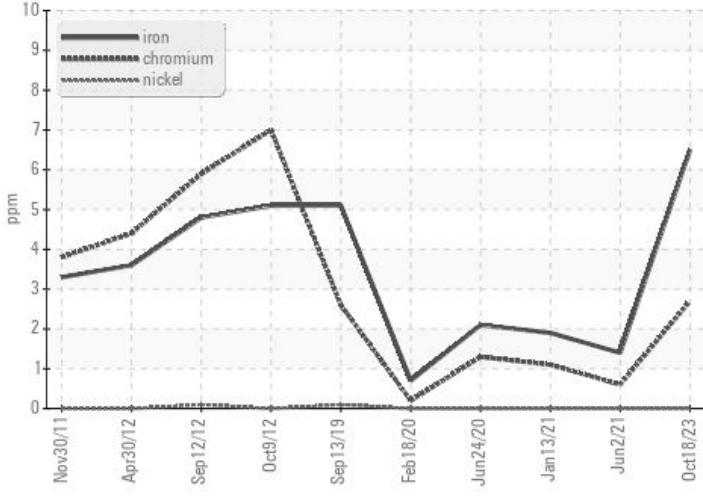


CONSTRUCTION EQUIPMENT

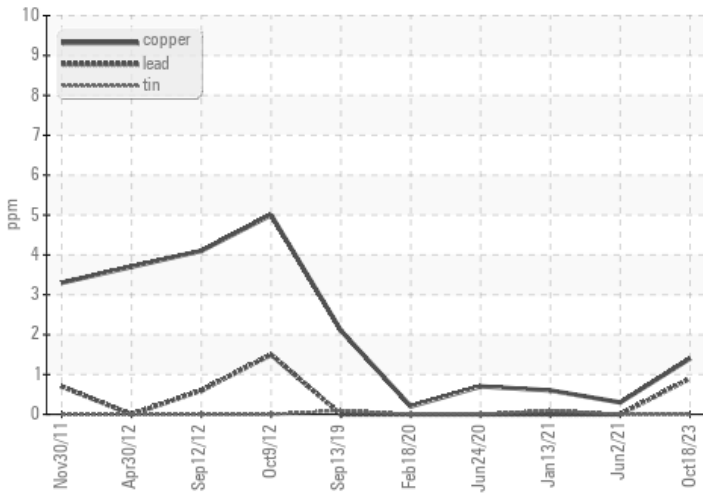


GRAPHS

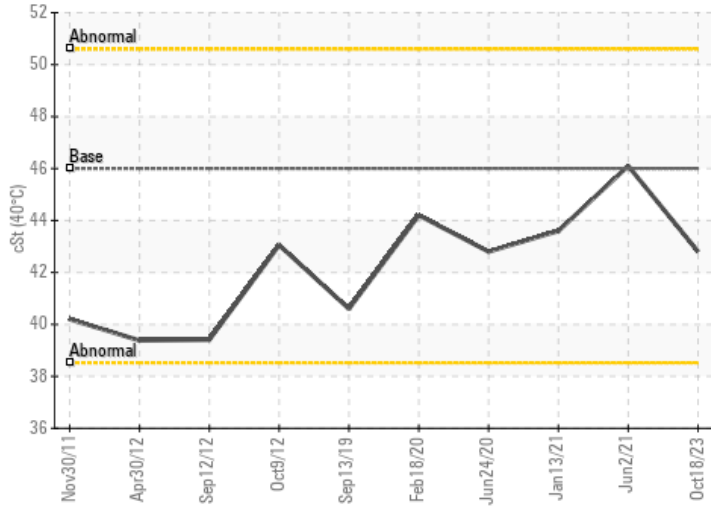
Ferrous Alloys



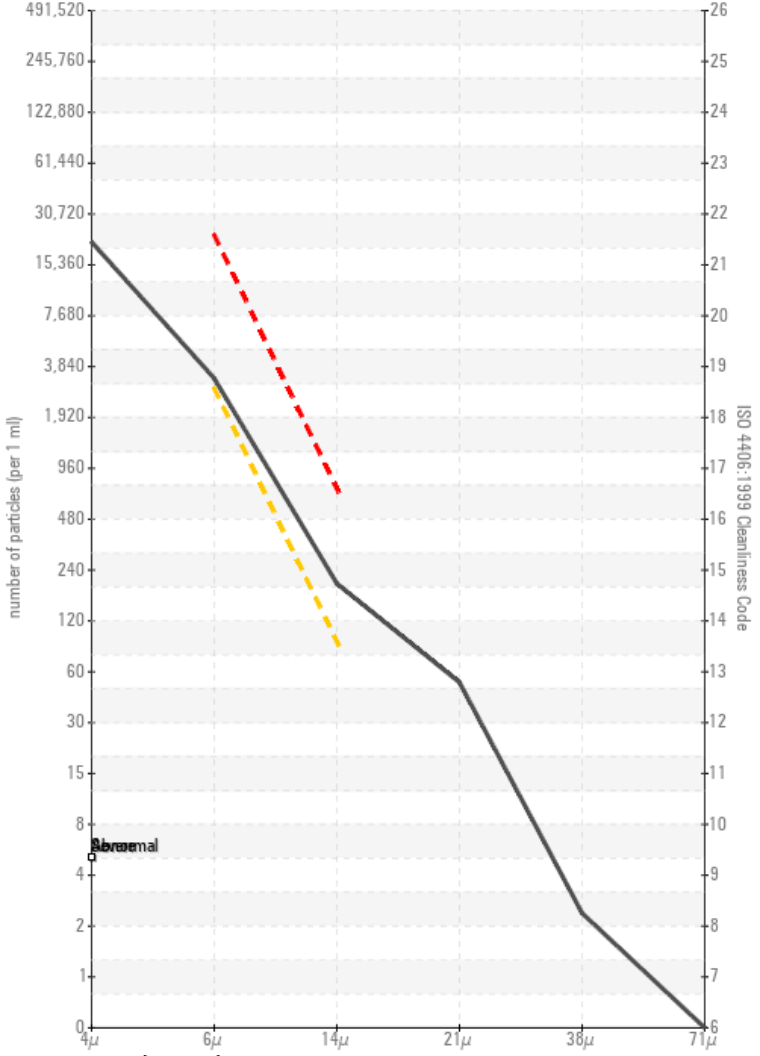
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

