



CONSTRUCTION EQUIPMENT

A12267 VOLVO L110H 632441 - HYDRAULIC SYSTEM



Sample No: VCP446076
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A12267



SAMPLE INFORMATION

Sample Number	VCP446076	VCP412930	VCP409803	---
Sample Date	05 Mar 2024	02 Oct 2023	05 Apr 2023	---
Machine Hours	3590	2450	1280	---
Oil Hours	3590	2450	1280	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	ATTENTION	NORMAL	NORMAL	---

HMR ASSOCIATES
 PO BOX 485
 TOUGHKENAMON, PA
 US 19374
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 40°C	cSt	40.9	41.4	42.3	---
Acid Number (AN)	mg KOH/g	0.17	0.35	0.29	---

T:
 F: (610)268-2225

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		3804	8754	6930	---
Particles >6µm		1107	460	1076	---
Particles >14µm		93	19	50	---
ISO 4406:1999 (c)		19/17/14	20/16/11	20/17/13	---
Silicon	ppm	3	3	3	---
Sodium	ppm	2	1	0	---
Potassium	ppm	4	3	2	---

Diagnosis
 We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) 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	5	5	3	---
Copper	ppm	2	2	2	---
Lead	ppm	<1	0	<1	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	0	0	0	---
Chromium	ppm	2	<1	1	---
Molybdenum	ppm	<1	<1	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	0	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	73	79	66	---
Magnesium	ppm	5	4	5	---
Zinc	ppm	414	431	430	---
Phosphorus	ppm	328	341	318	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	0	---

Depot: HMRTOU
Unique No: 10937719
Signed: Wes Davis
Report Date: 24 Mar 2024

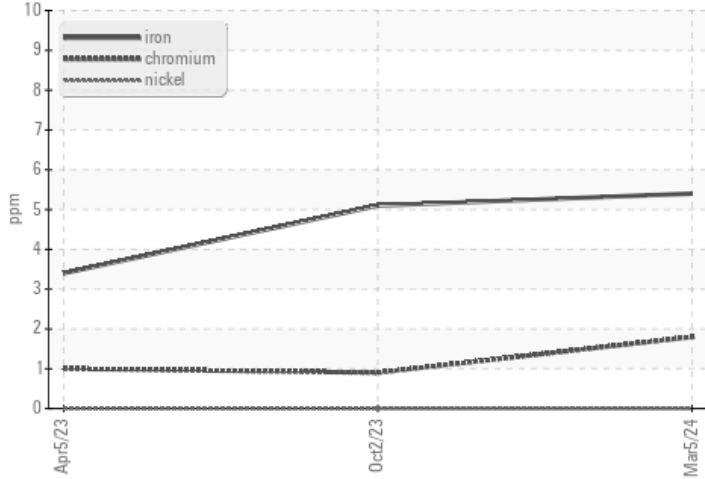


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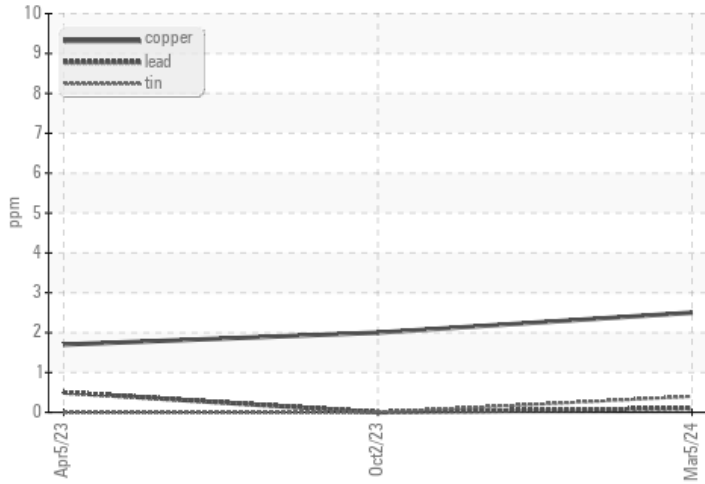


GRAPHS

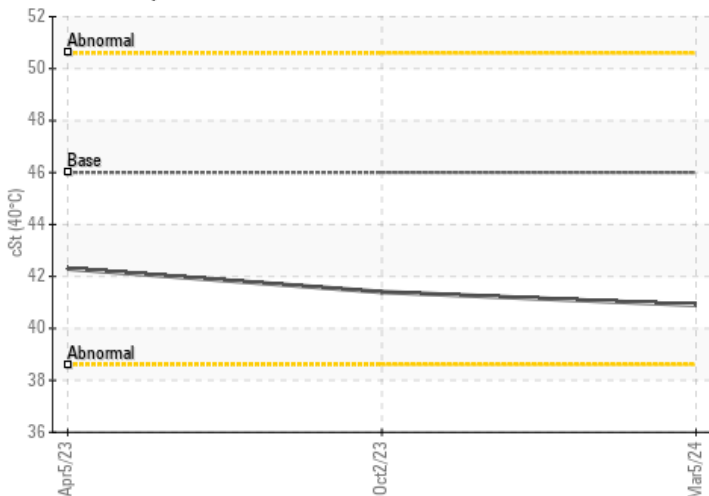
Ferrous Alloys



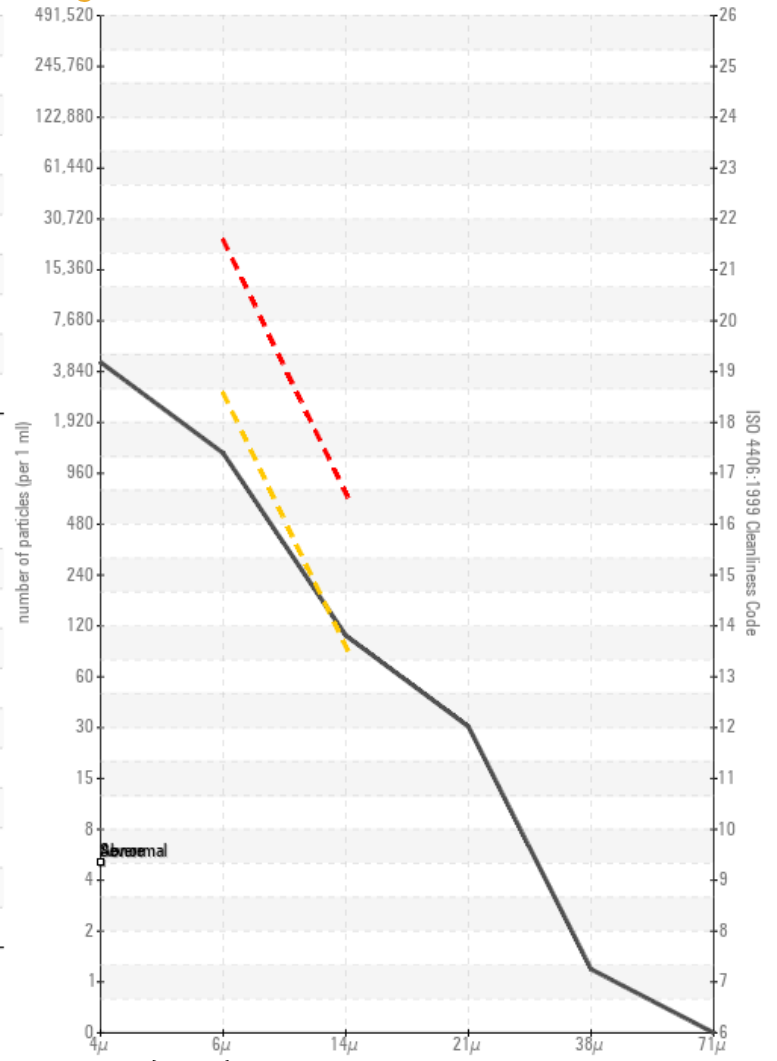
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

