



# CONSTRUCTION EQUIPMENT

## A12260 VOLVO L110H 632556 - HYDRAULIC SYSTEM



**Sample No:** VCP446198  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** A12260



### SAMPLE INFORMATION

Sample Number	<b>VCP446198</b>	VCP430368	---	---
Sample Date	<b>07 Mar 2024</b>	05 Oct 2023	---	---
Machine Hours	<b>2290</b>	1195	---	---
Oil Hours	<b>2290</b>	1195	---	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

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



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.1</b>	42.5	---	---
Acid Number (AN)	mg KOH/g	<b>0.35</b>	0.22	---	---

T:  
 F: (610)268-2225



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Particles >4µm		<b>7817</b>	7824	---	---
Particles >6µm		<b>1059</b>	429	---	---
Particles >14µm		<b>70</b>	11	---	---
ISO 4406:1999 (c)		<b>20/17/13</b>	20/16/11	---	---
Silicon	ppm	<b>2</b>	1	---	---
Sodium	ppm	<b>2</b>	1	---	---
Potassium	ppm	<b>4</b>	2	---	---

**Diagnosis**  
 Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>4</b>	4	---	---
Copper	ppm	<b>2</b>	1	---	---
Lead	ppm	<b>&lt;1</b>	0	---	---
Tin	ppm	<b>&lt;1</b>	0	---	---
Aluminum	ppm	<b>0</b>	0	---	---
Chromium	ppm	<b>1</b>	<1	---	---
Molybdenum	ppm	<b>&lt;1</b>	<1	---	---
Nickel	ppm	<b>0</b>	0	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	0	---	---
Vanadium	ppm	<b>0</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>68</b>	66	---	---
Magnesium	ppm	<b>5</b>	4	---	---
Zinc	ppm	<b>430</b>	441	---	---
Phosphorus	ppm	<b>338</b>	344	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>0</b>	0	---	---

**Depot:** HMRTOU  
**Unique No:** 10937720  
**Signed:** Wes Davis  
**Report Date:** 24 Mar 2024

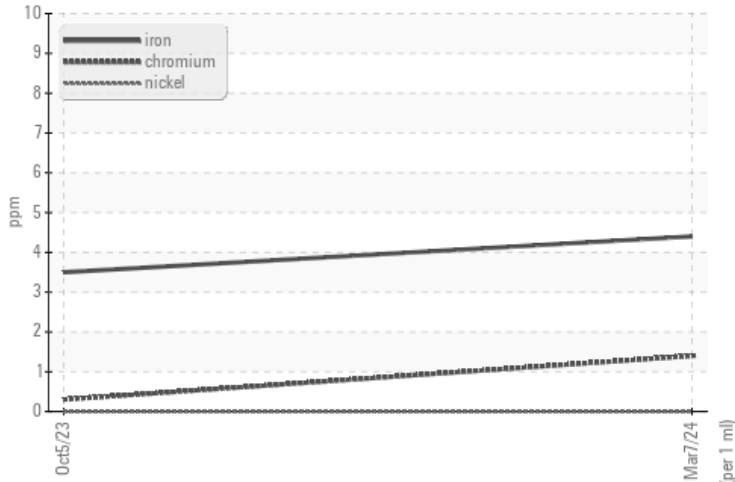


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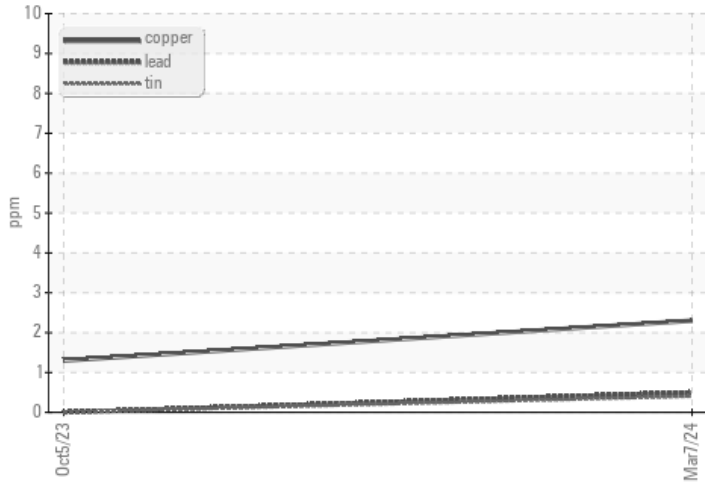


## GRAPHS

### Ferrous Alloys



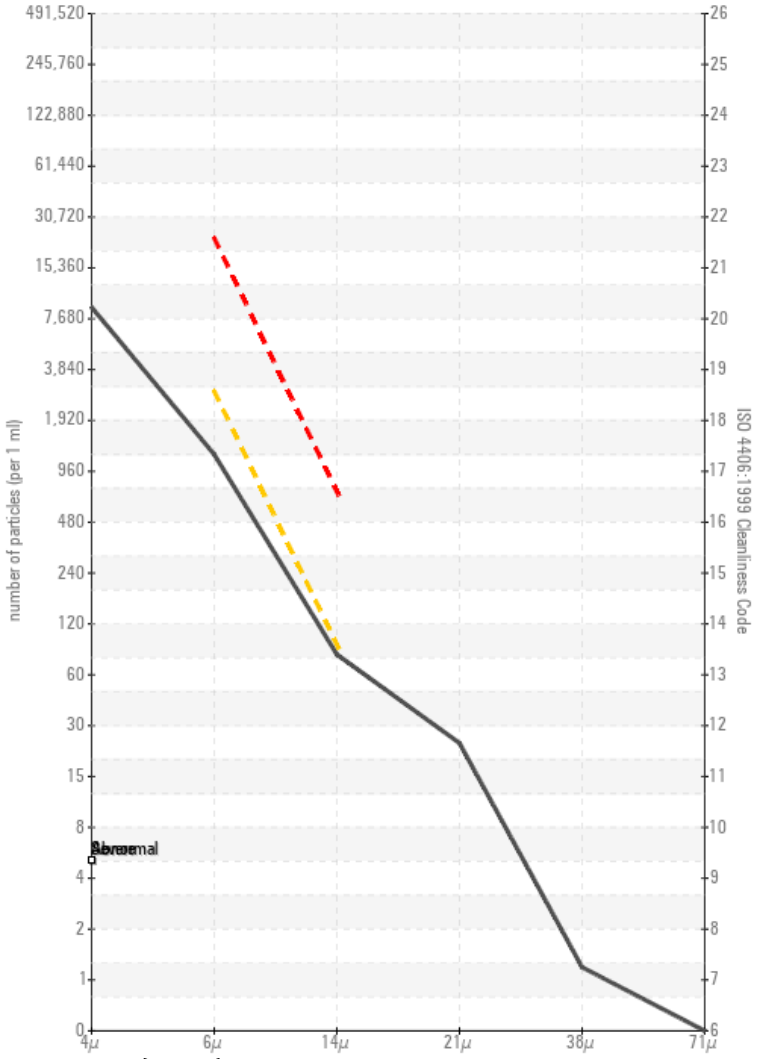
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

