



# CONSTRUCTION EQUIPMENT

## SW-27905-2 MANHEIM VOLVO L90F 68702 - HYDRAULIC SYSTEM



**Sample No:** VCP435846  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SW-27905-2 MANHEIM



### SAMPLE INFORMATION

Sample Number	<b>VCP435846</b>	VCP357186	VCP143462	---
Sample Date	<b>22 Dec 2023</b>	01 Apr 2022	03 Apr 2014	---
Machine Hours	<b>17058</b>	14595	4482	---
Oil Hours	<b>1000</b>	2000	0	---
Oil Changed	<b>Not Chngd</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	---

### ARNOLD MACHINERY COMPANY

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 SALT LAKE CITY, UT  
 US 84119

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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.6</b>	41.7	51.21	---
Acid Number (AN)	mg KOH/g	<b>0.16</b>	0.22	0.560	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>527</b>	858	1003	---
Particles >6µm		<b>67</b>	150	546	---
Particles >14µm		<b>5</b>	14	93	---
ISO 4406:1999 (c)		<b>16/13/10</b>	17/14/11	17/16/14	---
Silicon	ppm	<b>2</b>	4	8	---
Sodium	ppm	<b>&lt;1</b>	0	1	---
Potassium	ppm	<b>0</b>	0	1	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	<b>0</b>	2	3	---
Copper	ppm	<b>&lt;1</b>	<1	2	---
Lead	ppm	<b>0</b>	0	1	---
Tin	ppm	<b>0</b>	0	0	---
Aluminum	ppm	<b>0</b>	<1	<1	---
Chromium	ppm	<b>0</b>	0	<1	---
Molybdenum	ppm	<b>1</b>	<1	0	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>0</b>	0	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>57</b>	79	52	---
Magnesium	ppm	<b>0</b>	4	0	---
Zinc	ppm	<b>444</b>	413	462	---
Phosphorus	ppm	<b>353</b>	345	342	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	2	3	---

**Depot:** VOLVO8770  
**Unique No:** 10809372  
**Signed:** Don Baldrige  
**Report Date:** 03 Jan 2024

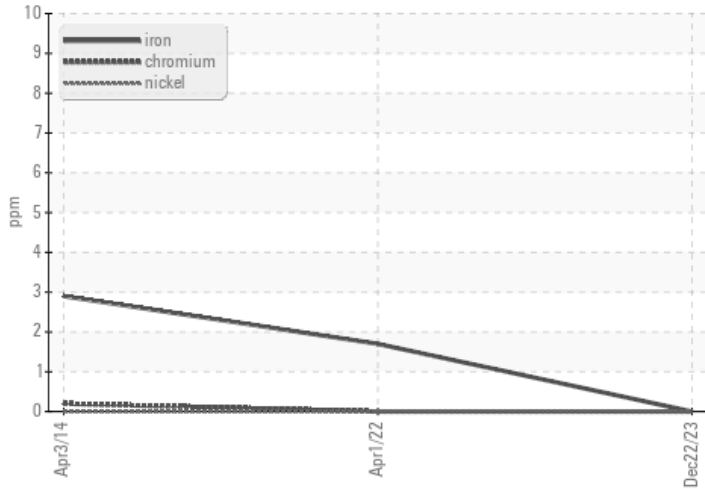


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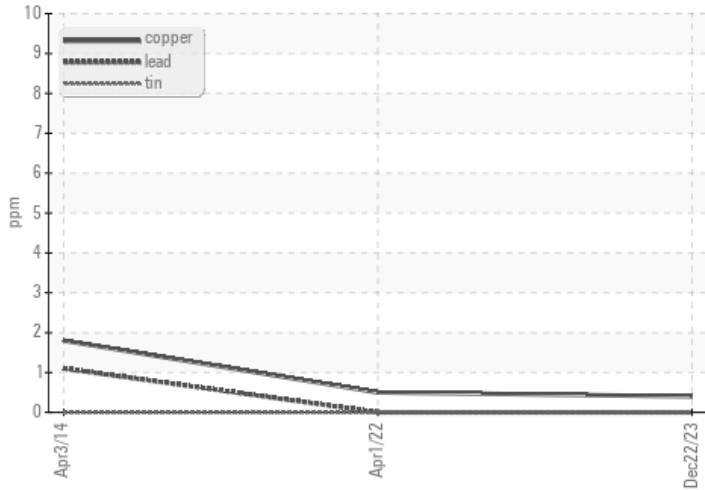


## VOLVO GRAPHS

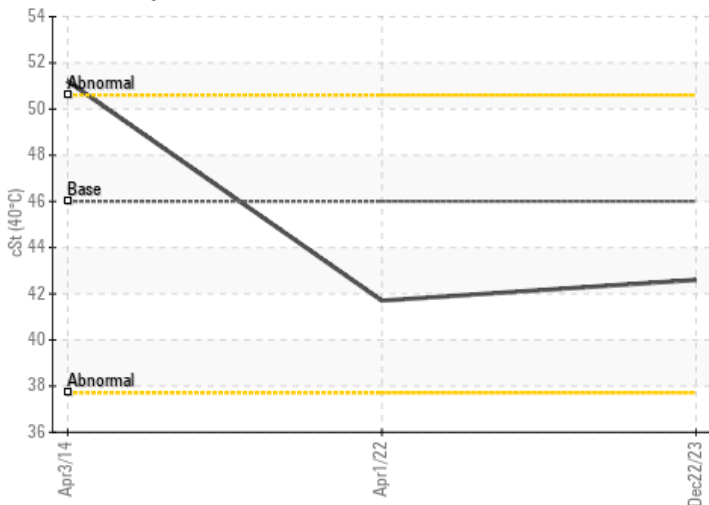
### Ferrous Alloys



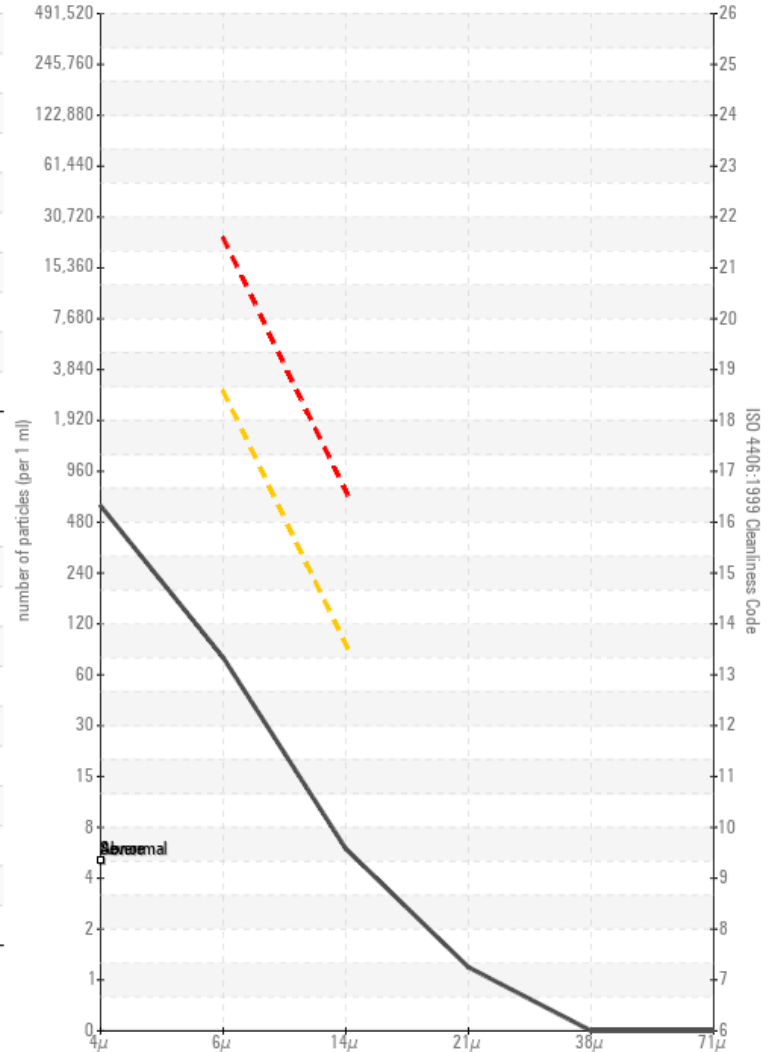
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

