



# CONSTRUCTION EQUIPMENT

## IAA VOLVO L90H 624427 - HYDRAULIC SYSTEM



**Sample No:** VKC0000305  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** IAA



### SAMPLE INFORMATION

Sample Number	<b>VKC0000305</b>	VKC001882	---	---
Sample Date	<b>04 Apr 2022</b>	20 Mar 2019	---	---
Machine Hours	<b>8003</b>	2095	---	---
Oil Hours	<b>2000</b>	2000	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>ATTENTION</b>	NORMAL	---	---



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### OIL CONDITION

Visc @ 40°C	cSt	<b>40.9</b>	41.64	---	---
Acid Number (AN)	mg KOH/g	<b>0.28</b>	0.362	---	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Particles >4µm		<b>8639</b>	2536	---	---
Particles >6µm		<b>2232</b>	84	---	---
Particles >14µm		<b>131</b>	5	---	---
ISO 4406:1999 (c)		<b>20/18/14</b>	19/14/10	---	---
Silicon	ppm	<b>3</b>	1	---	---
Sodium	ppm	<b>3</b>	2	---	---
Potassium	ppm	<b>0</b>	8	---	---

### Diagnosis

Oil and 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 moderate 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	<b>3</b>	4	---	---
Copper	ppm	<b>2</b>	4	---	---
Lead	ppm	<b>&lt;1</b>	2	---	---
Tin	ppm	<b>&lt;1</b>	0	---	---
Aluminum	ppm	<b>&lt;1</b>	<1	---	---
Chromium	ppm	<b>0</b>	<1	---	---
Molybdenum	ppm	<b>0</b>	0	---	---
Nickel	ppm	<b>0</b>	<1	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>&lt;1</b>	0	---	---
Manganese	ppm	<b>0</b>	0	---	---
Vanadium	ppm	<b>0</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>527</b>	53	---	---
Magnesium	ppm	<b>&lt;1</b>	<1	---	---
Zinc	ppm	<b>512</b>	432	---	---
Phosphorus	ppm	<b>468</b>	325	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>16</b>	0	---	---

**Depot:** GWVKAN  
**Unique No:** 9947293  
**Signed:** Don Baldrige  
**Report Date:** 26 Apr 2022

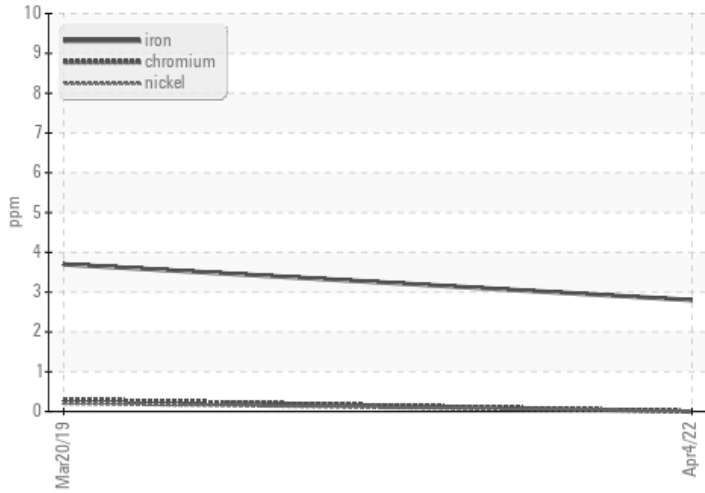


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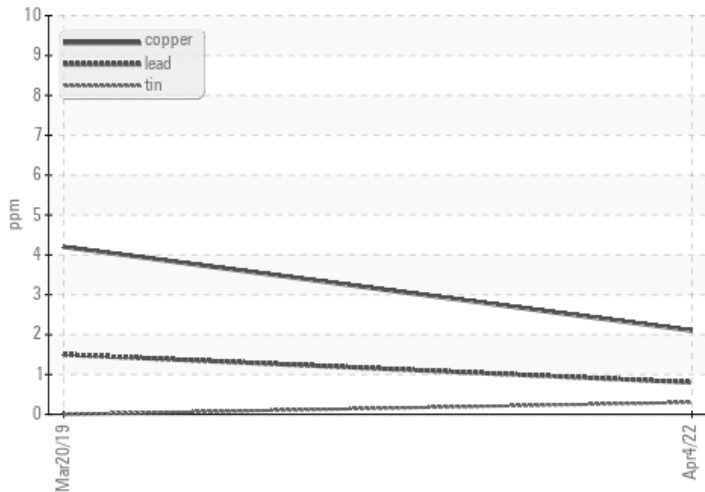


## GRAPHS

### Ferrous Alloys



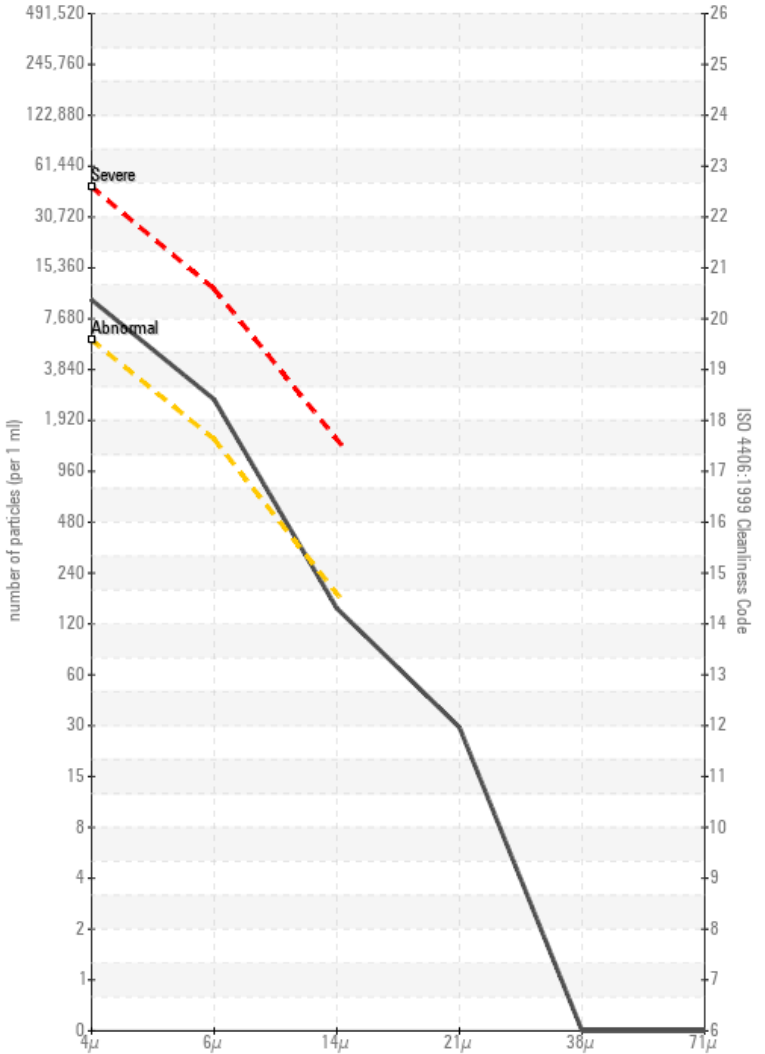
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

