



# CONSTRUCTION EQUIPMENT

## D12894 WM AI VOLVO L70H 624717 - HYDRAULIC SYSTEM



**Sample No:** VCP429532  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** D12894 WM AI



### SAMPLE INFORMATION

Sample Number	<b>VCP429532</b>	VCP418993	VCP418969	VCP381281
Sample Date	<b>19 Oct 2023</b>	08 Sep 2023	04 Aug 2023	28 Jun 2023
Machine Hours	<b>3224</b>	2966	2770	2570
Oil Hours	<b>258</b>	2966	2770	2570
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	NORMAL	SEVERE	SEVERE

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.4</b>	41.8	41.5	41.9
Acid Number (AN)	mg KOH/g	<b>0.42</b>	0.40	0.47	0.38



### CONTAMINATION

Particles >4µm		<b>11663</b>	1577	35268	12292
Particles >6µm		<b>3526</b>	449	11707	4475
Particles >14µm		<b>266</b>	45	941	1011
ISO 4406:1999 (c)		<b>21/19/15</b>	18/16/13	22/21/17	21/19/17
Silicon	ppm	<b>1</b>	4	4	3
Sodium	ppm	<b>0</b>	2	0	2
Potassium	ppm	<b>1</b>	0	<1	1

### Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



### WEAR METALS

Iron	ppm	<b>0</b>	5	6	5
Copper	ppm	<b>2</b>	3	3	2
Lead	ppm	<b>&lt;1</b>	<1	1	0
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>2</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>1</b>	<1	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>81</b>	96	105	84
Magnesium	ppm	<b>9</b>	2	5	4
Zinc	ppm	<b>454</b>	459	455	503
Phosphorus	ppm	<b>341</b>	372	346	380
Barium	ppm	<b>9</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** VOLVO0069  
**Unique No:** 10710702  
**Signed:** Wes Davis  
**Report Date:** 25 Oct 2023

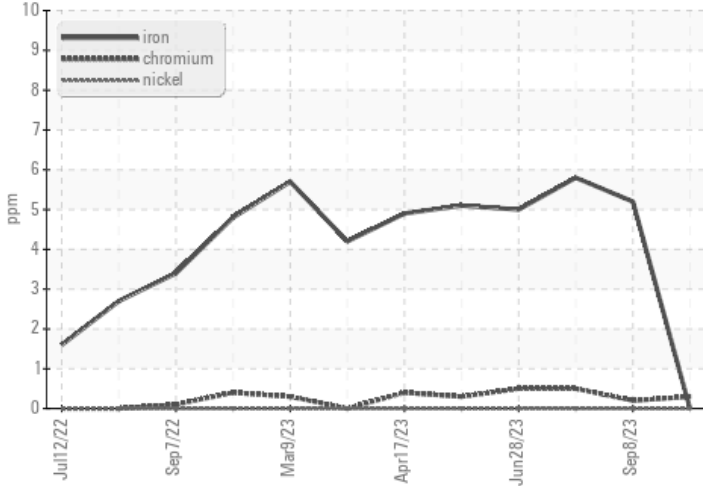


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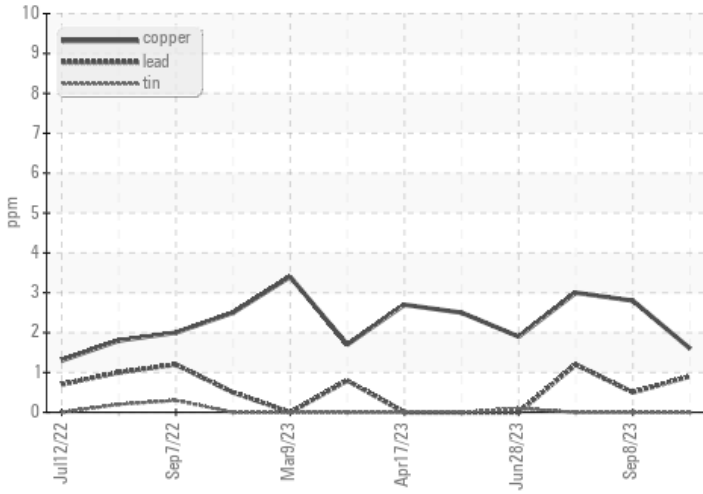


## GRAPHS

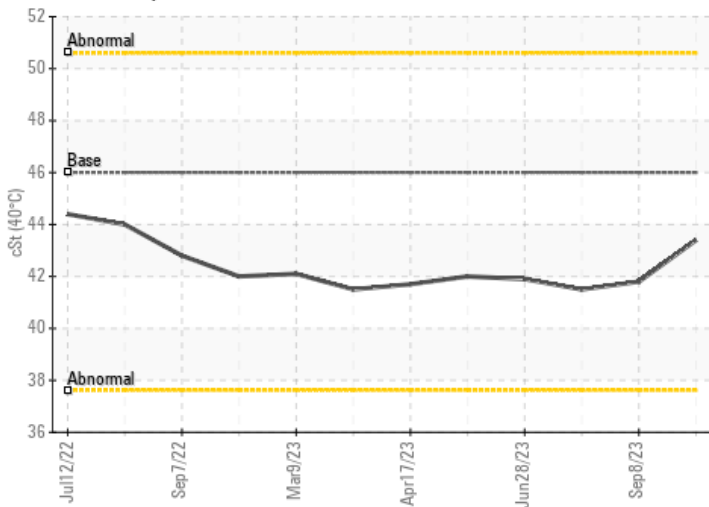
### Ferrous Alloys



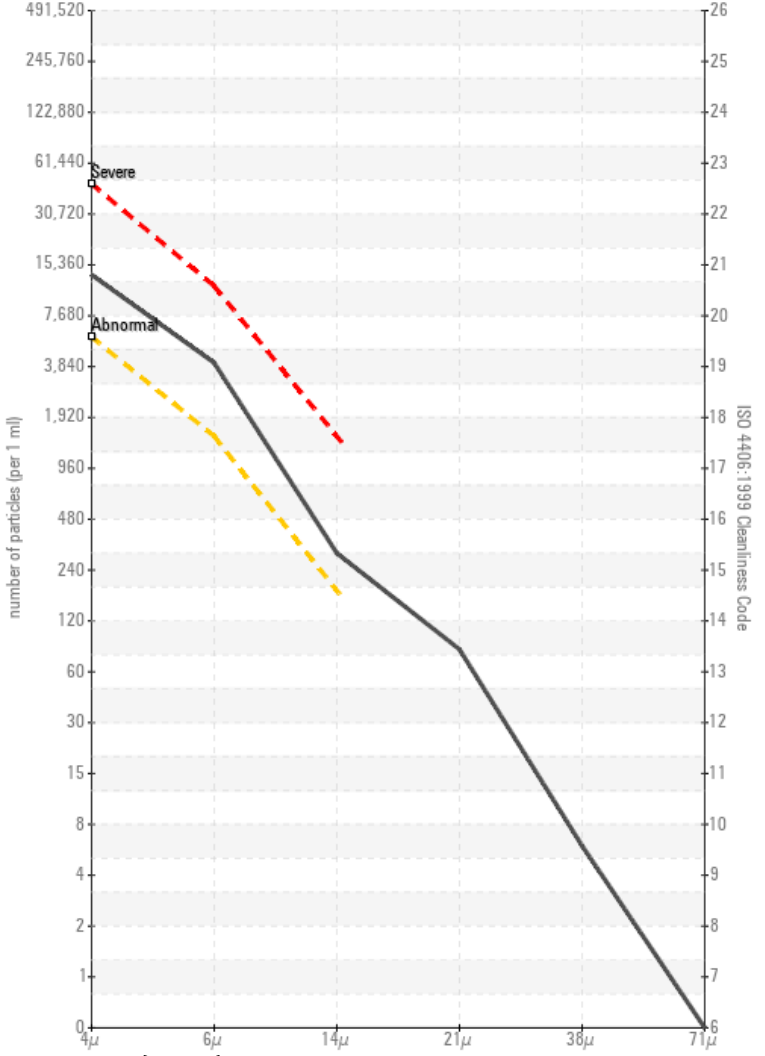
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

