



# CONSTRUCTION EQUIPMENT

## SPM634472 WM VOLVO L90H 624824 - HYDRAULIC SYSTEM



**Sample No:** VCP428654  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM634472 WM



### SAMPLE INFORMATION

Sample Number	<b>VCP428654</b>	VCP398393	VCP426420	VCP399655
Sample Date	<b>29 Nov 2023</b>	18 Oct 2023	03 Oct 2023	28 Sep 2023
Machine Hours	<b>10587</b>	10540	10193	10002
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	NORMAL	ATTENTION	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.0</b>	43.1	43.4	43.0
Acid Number (AN)	mg KOH/g	<b>0.48</b>	0.37	0.33	0.44



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>▲ 23597</b>	830	▲ 6029	1665
Particles >6µm		<b>▲ 3561</b>	199	▲ 1316	505
Particles >14µm		<b>■ 114</b>	15	59	38
ISO 4406:1999 (c)		<b>22/19/14</b>	17/15/11	20/18/13	18/16/12
Silicon	ppm	<b>■ 4</b>	4	3	4
Sodium	ppm	<b>■ 1</b>	1	0	0
Potassium	ppm	<b>■ 0</b>	1	0	0

### Diagnosis

The filter change at the time of sampling has been noted. 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>■ 2</b>	<1	0	0
Copper	ppm	<b>■ &lt;1</b>	<1	0	0
Lead	ppm	<b>■ 0</b>	<1	0	0
Tin	ppm	<b>■ 0</b>	0	0	0
Aluminum	ppm	<b>■ 0</b>	0	0	0
Chromium	ppm	<b>■ &lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>■ &lt;1</b>	0	0	0
Nickel	ppm	<b>■ 0</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>■ 0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>■ 65</b>	64	60	51
Magnesium	ppm	<b>■ 4</b>	12	8	0
Zinc	ppm	<b>■ 406</b>	401	377	369
Phosphorus	ppm	<b>■ 324</b>	315	307	297
Barium	ppm	<b>■ 0</b>	0	0	0
Boron	ppm	<b>■ 0</b>	0	0	0

**Depot:** VOLVO8885  
**Unique No:** 10792946  
**Signed:** Wes Davis  
**Report Date:** 19 Dec 2023

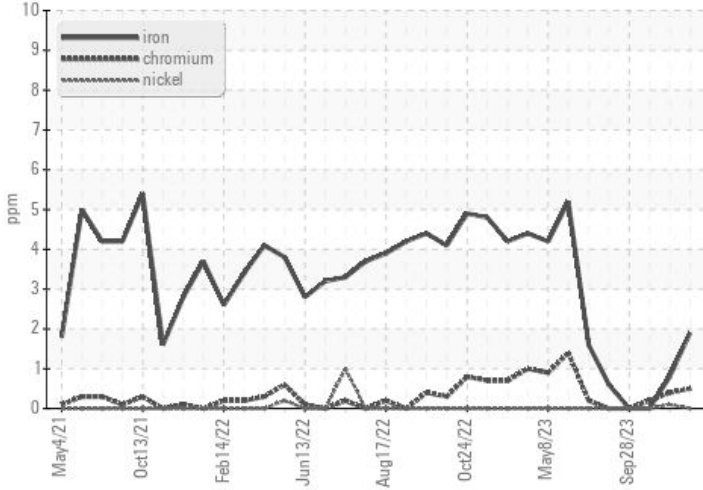


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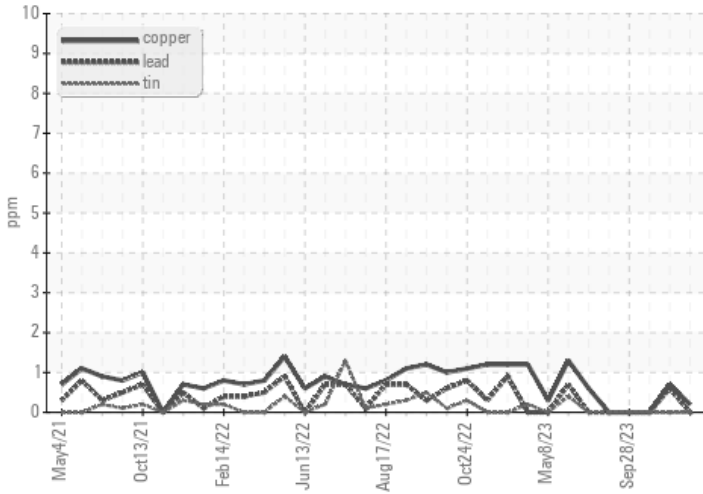


## GRAPHS

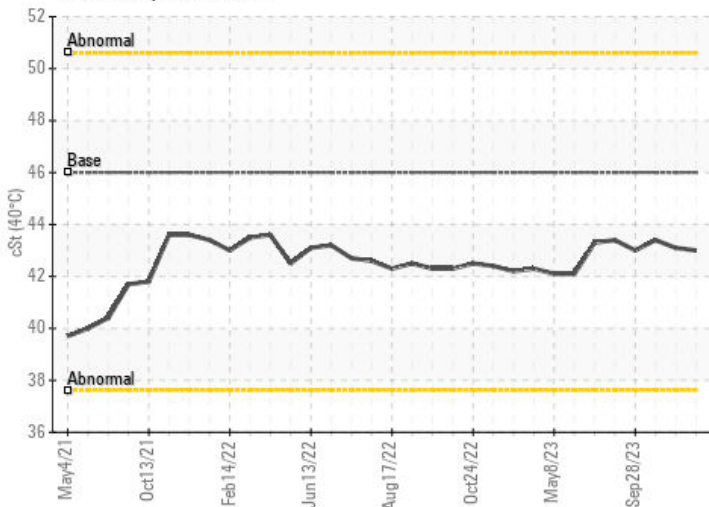
### Ferrous Alloys



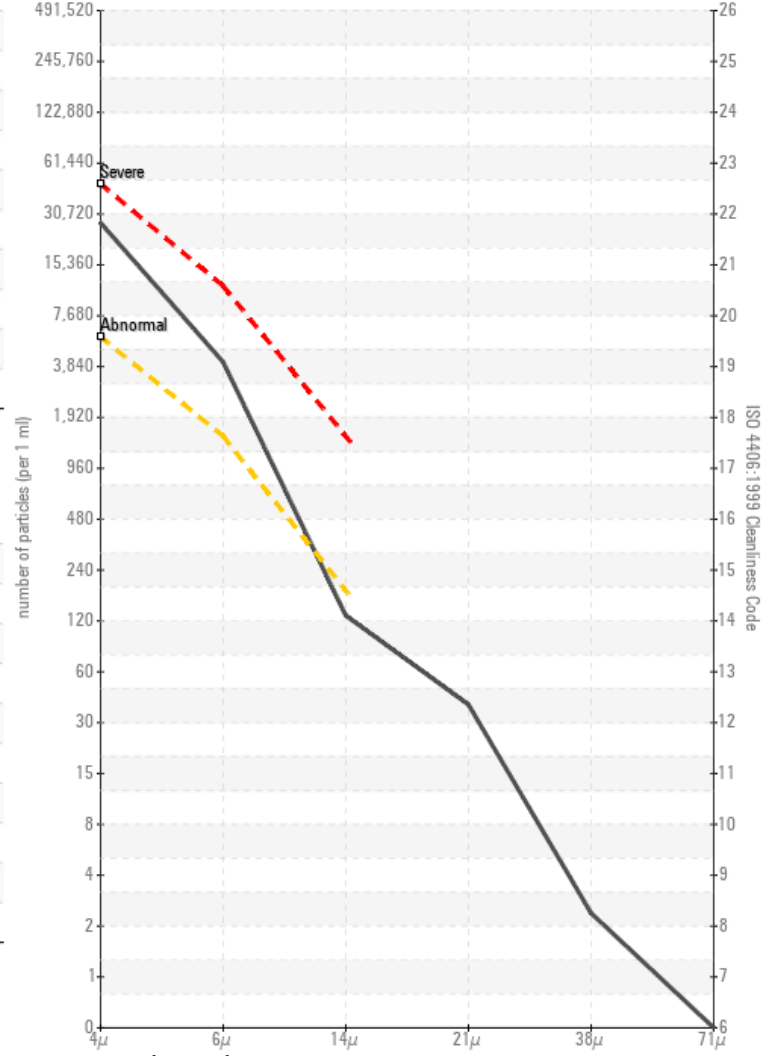
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

