



# CONSTRUCTION EQUIPMENT

## SPM581080 WM ROCKDAL VOLVO L120H 32310 - HYDRAULIC SYSTEM



**Sample No:** VCP409232  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM581080 WM ROCKDAL



### SAMPLE INFORMATION

Sample Number	<b>VCP409232</b>	VCP421927	VCP372310	VCP342031
Sample Date	<b>25 Jul 2023</b>	21 Apr 2023	18 Jun 2022	26 Oct 2021
Machine Hours	<b>14550</b>	13965	12523	10947
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	NORMAL

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 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>45.8</b>	44.5	37.4	37.3
Acid Number (AN)	mg KOH/g	<b>0.43</b>	0.69	0.74	0.972



### CONTAMINATION

Particles >4µm	<b>22553</b>	3496	116454	2507	
Particles >6µm	<b>5351</b>	1016	25219	229	
Particles >14µm	<b>364</b>	60	832	8	
ISO 4406:1999 (c)	<b>22/20/16</b>	19/17/13	24/22/17	19/15/10	
Silicon	ppm	<b>3</b>	<1	26	2
Sodium	ppm	<b>2</b>	<1	4	0
Potassium	ppm	<b>0</b>	0	0	<1

### Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 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>4</b>	29	6	6
Copper	ppm	<b>4</b>	1	2	3
Lead	ppm	<b>&lt;1</b>	0	<1	1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>1</b>	<1	<1	0
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>0</b>	0	1	3
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	0	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>62</b>	653	137	209
Magnesium	ppm	<b>&lt;1</b>	2	100	403
Zinc	ppm	<b>430</b>	565	670	1054
Phosphorus	ppm	<b>340</b>	473	470	920
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	2	3

**Depot:** VOLVO8885  
**Unique No:** 10602082  
**Signed:** Wes Davis  
**Report Date:** 14 Aug 2023

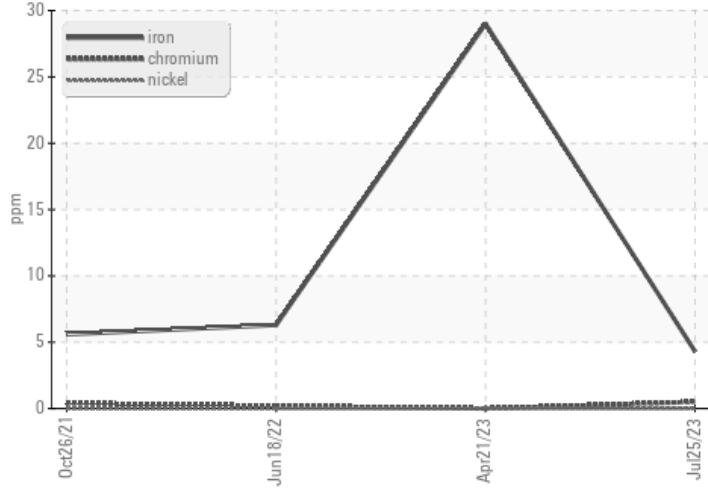


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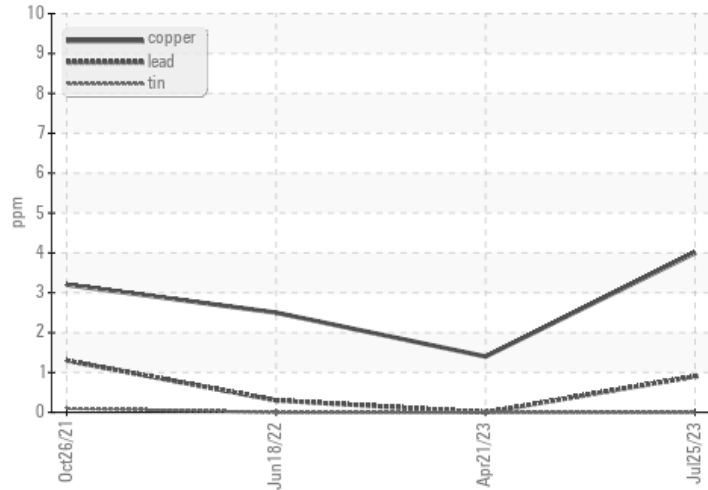


## GRAPHS

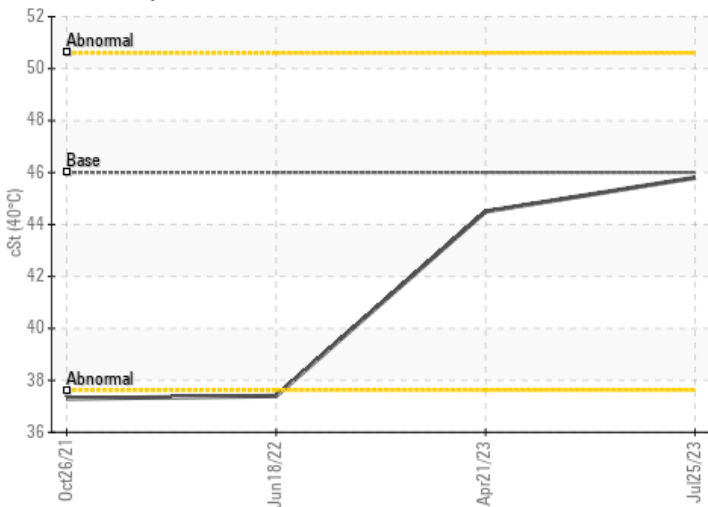
### Ferrous Alloys



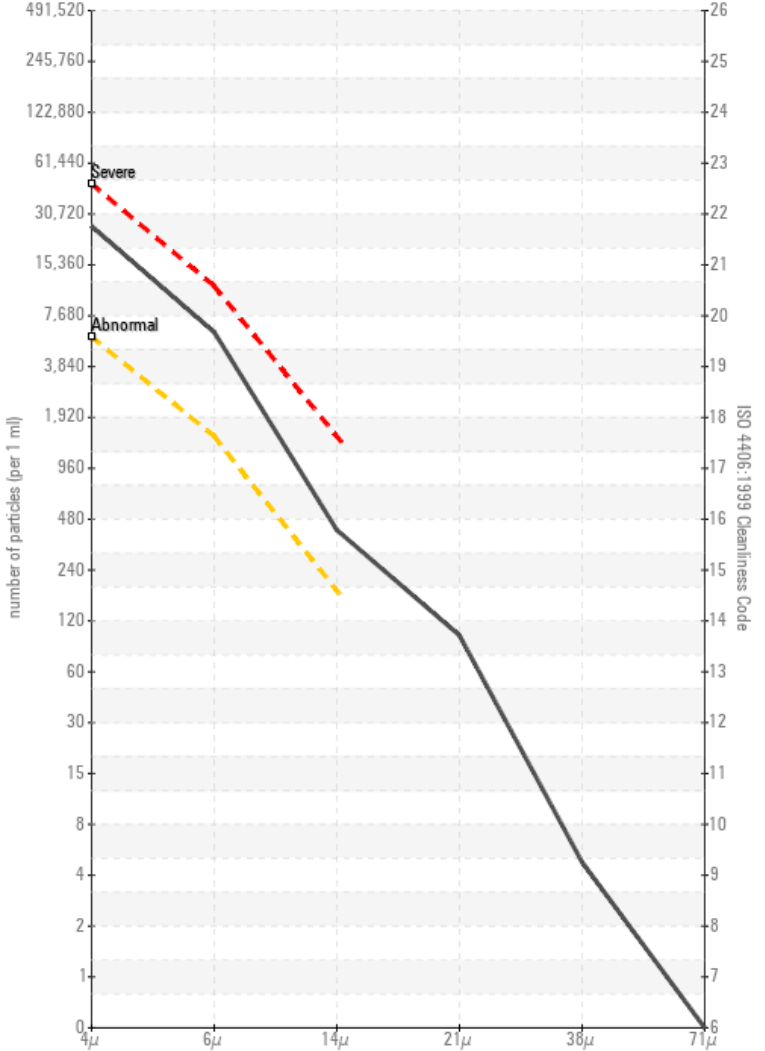
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

