



# CONSTRUCTION EQUIPMENT

## W14799 VOLVO L220H 2915 - HYDRAULIC SYSTEM



**Sample No:** VCP441912  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** W14799



### SAMPLE INFORMATION

Sample Number	<b>VCP441912</b>	VCP426808	VCP381166	VCP374223
Sample Date	<b>20 Oct 2023</b>	02 Aug 2023	14 Feb 2023	12 Sep 2022
Machine Hours	<b>5498</b>	5035	4525	4189
Oil Hours	<b>500</b>	1000	500	2000
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>40.7</b>	41.5	42.2	39.4
Acid Number (AN)	mg KOH/g	<b>0.43</b>	0.40	0.38	0.47



### CONTAMINATION

Particles >4µm		<b>6052</b>	2815	10132	15953
Particles >6µm		<b>1375</b>	725	2527	4169
Particles >14µm		<b>118</b>	31	102	522
ISO 4406:1999 (c)		<b>20/18/14</b>	19/17/12	21/19/14	21/19/16
Silicon	ppm	<b>3</b>	3	2	3
Sodium	ppm	<b>1</b>	2	0	<1
Potassium	ppm	<b>0</b>	0	0	0

### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light 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>	5	3	8
Copper	ppm	<b>2</b>	3	2	4
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>0</b>	<1	0	1
Chromium	ppm	<b>&lt;1</b>	2	1	2
Molybdenum	ppm	<b>0</b>	<1	<1	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>132</b>	137	140	245
Magnesium	ppm	<b>0</b>	6	3	<1
Zinc	ppm	<b>407</b>	441	430	438
Phosphorus	ppm	<b>329</b>	363	345	387
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	1	0	0

**Depot:** VOLVO0080  
**Unique No:** 10727343  
**Signed:** Wes Davis  
**Report Date:** 07 Nov 2023

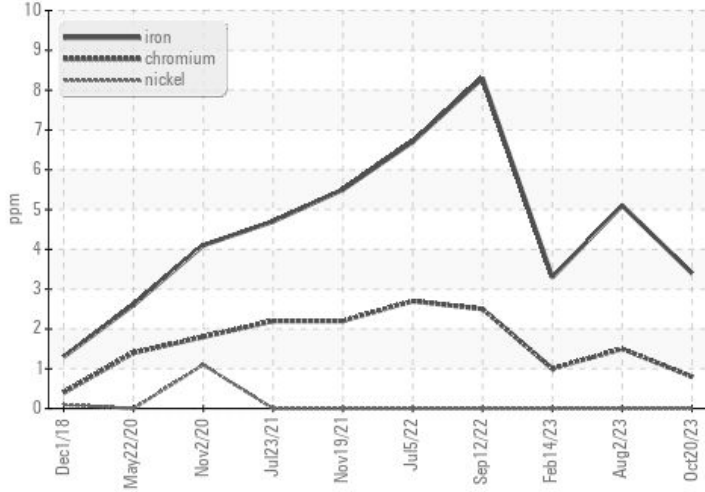


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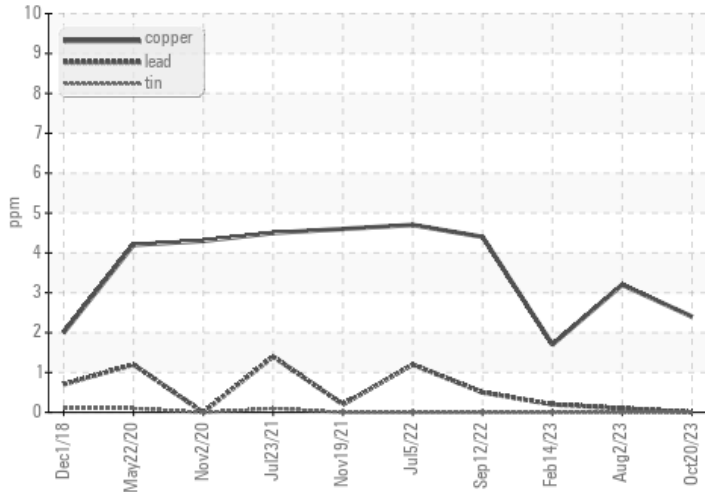


## VOLVO GRAPHS

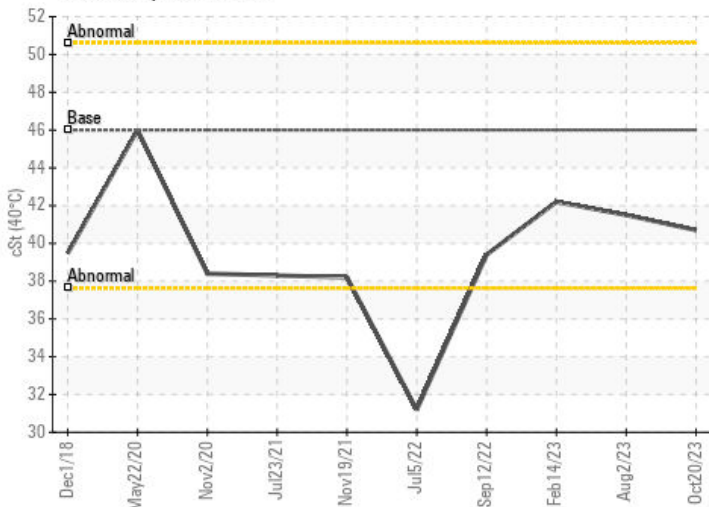
Ferrous Alloys



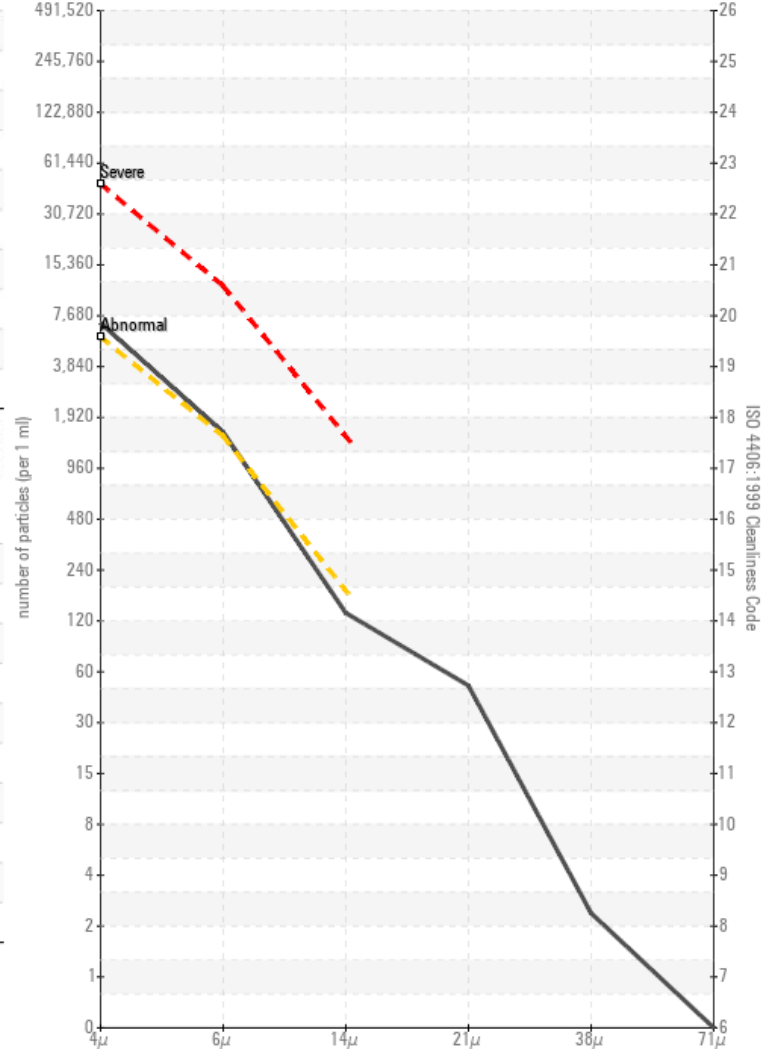
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

