



# CONSTRUCTION EQUIPMENT

## SWO-069917 APAC AL VOLVO L150H 5908 - HYDRAULIC SYSTEM



**Sample No:** VCP416172  
**Oil Type:** AW HYDRAULIC OIL ISO 32  
**Job No:** SWO-069917 APAC AL



### SAMPLE INFORMATION

Sample Number	<b>VCP416172</b>	VCP297127	VCP290608	VCP285718
Sample Date	<b>22 Feb 2024</b>	05 Feb 2021	18 Nov 2020	24 Aug 2020
Machine Hours	<b>7119</b>	4059	3253	3140
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>ATTENTION</b>	ABNORMAL	ABNORMAL	ATTENTION

### COWIN EQUIPMENT COMPANY

2238 PINSON VALLEY PARKWAY  
 BIRMINGHAM, AL  
 US 35217  
 Contact: BRANTLY CLAY  
 bclay@cowin.com  
 T:  
 F: (205)856-2106



### OIL CONDITION

Visc @ 40°C	cSt	<b>44.9</b>	46.5	37.6	38.0
Acid Number (AN)	mg KOH/g	<b>0.35</b>	0.469	0.372	0.338



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>5579</b>	14146	13308	5932
Particles >6µm		<b>1194</b>	4724	4026	1939
Particles >14µm		<b>45</b>	614	394	74
ISO 4406:1999 (c)		<b>20/17/13</b>	21/19/16	21/19/16	20/18/13
Silicon	ppm	<b>1</b>	<1	0	2
Sodium	ppm	<b>0</b>	<1	1	2
Potassium	ppm	<b>0</b>	0	<1	<1



### WEAR METALS

Iron	ppm	<b>1</b>	<1	5	4
Copper	ppm	<b>&lt;1</b>	0	8	7
Lead	ppm	<b>&lt;1</b>	<1	2	2
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>0</b>	<1	<1	0
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	2	<1	<1
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	<1	0	<1
Manganese	ppm	<b>&lt;1</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>67</b>	89	54	49
Magnesium	ppm	<b>16</b>	15	2	2
Zinc	ppm	<b>421</b>	421	431	436
Phosphorus	ppm	<b>305</b>	329	339	303
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>0</b>	7	2	5

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

**Depot:** VOLVO8528  
**Unique No:** 10899785  
**Signed:** Jonathan Hester  
**Report Date:** 29 Feb 2024

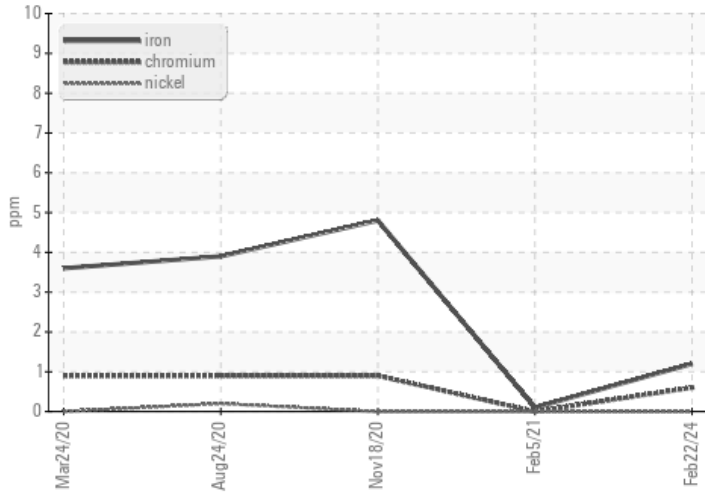


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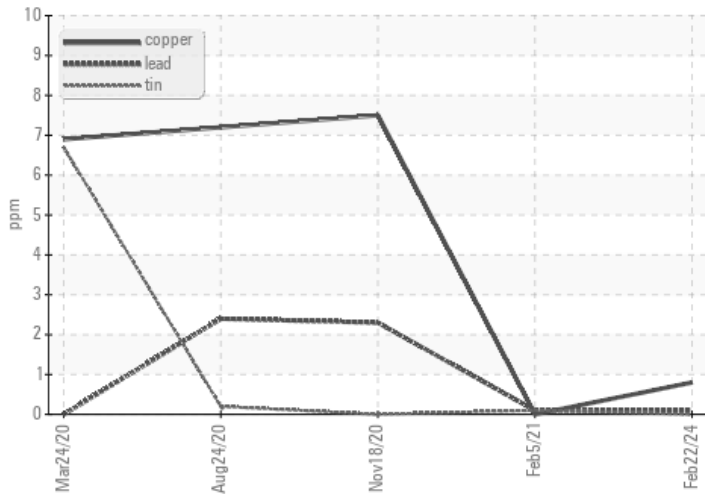


## GRAPHS

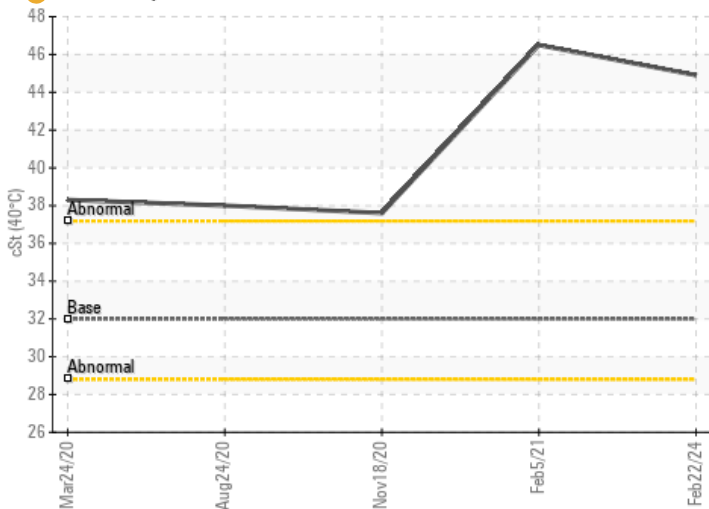
### Ferrous Alloys



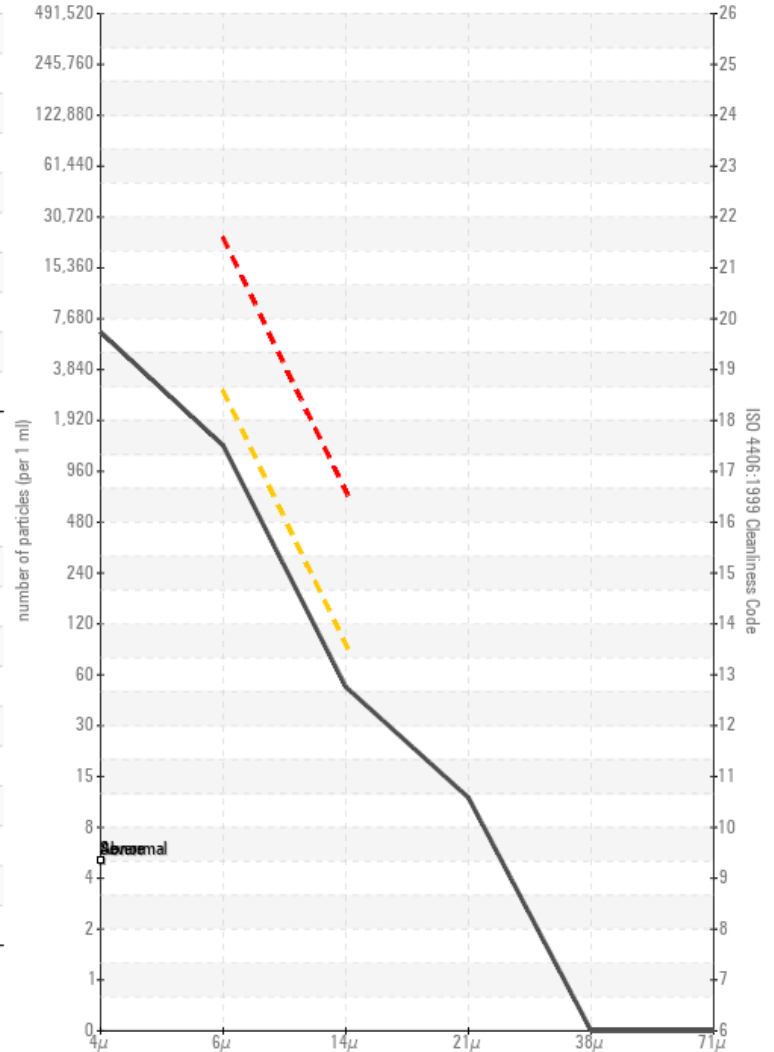
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

