



# CONSTRUCTION EQUIPMENT

8000509218 VOLVO L120H 632081 - HYDRAULIC SYSTEM



**Sample No:** VCP333743  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 8000509218



## SAMPLE INFORMATION

Sample Number	<b>VCP333743</b>	VCP347413	VCP299264	VCP260308
Sample Date	<b>24 Jun 2024</b>	16 May 2022	17 Jun 2021	31 Jan 2020
Machine Hours	<b>36213</b>	24847	19757	15849
Oil Hours	<b>4000</b>	4000	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL

**STRONGCO EQUIP (AB)**  
6 - 38403 BURNT LAKE TRAIL  
RED DEER COUNTY, AB  
CA T4S 2L4  
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## OIL CONDITION

Visc @ 40°C	cSt	<b>41.0</b>	41.3	41.1	40.6
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## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		<b>1901</b>	23268	1175	3572
Particles >6µm		<b>514</b>	4958	354	1026
Particles >14µm		<b>50</b>	246	25	69
ISO 4406:1999 (c)		<b>18/16/13</b>	22/19/15	17/16/12	19/17/13
Silicon	ppm	<b>7</b>	13	9	8
Sodium	ppm	<b>2</b>	<1	1	<1
Potassium	ppm	<b>&lt;1</b>	<1	<1	<1

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>10</b>	5	5	5
Copper	ppm	<b>2</b>	1	1	2
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>1</b>	1	2	2
Chromium	ppm	<b>3</b>	<1	<1	1
Molybdenum	ppm	<b>0</b>	0	<1	0
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>0</b>	0	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>80</b>	59	59	60
Magnesium	ppm	<b>2</b>	2	1	<1
Zinc	ppm	<b>434</b>	437	441	444
Phosphorus	ppm	<b>333</b>	364	330	340
Barium	ppm	<b>0</b>	0	<1	<1
Boron	ppm	<b>&lt;1</b>	<1	<1	<1

**Depot:** VOLVO9652  
**Unique No:** 5801725  
**Signed:** Wes Davis  
**Report Date:** 27 Jun 2024

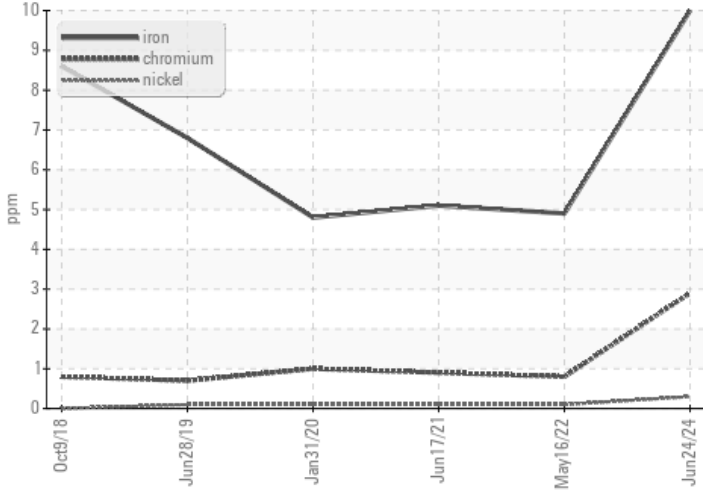


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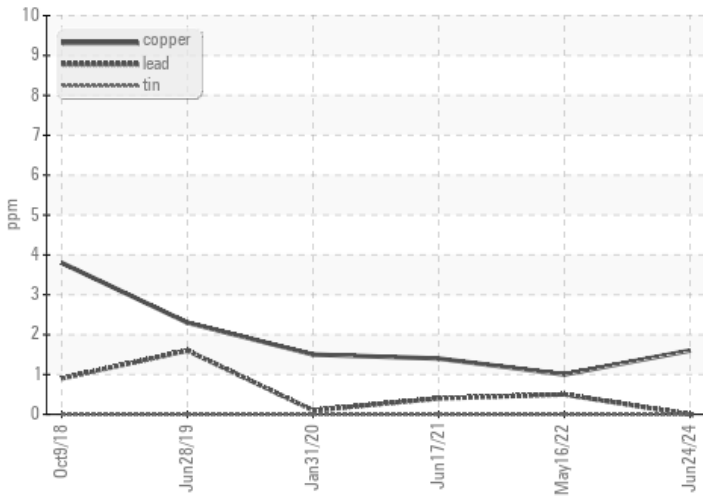


## GRAPHS

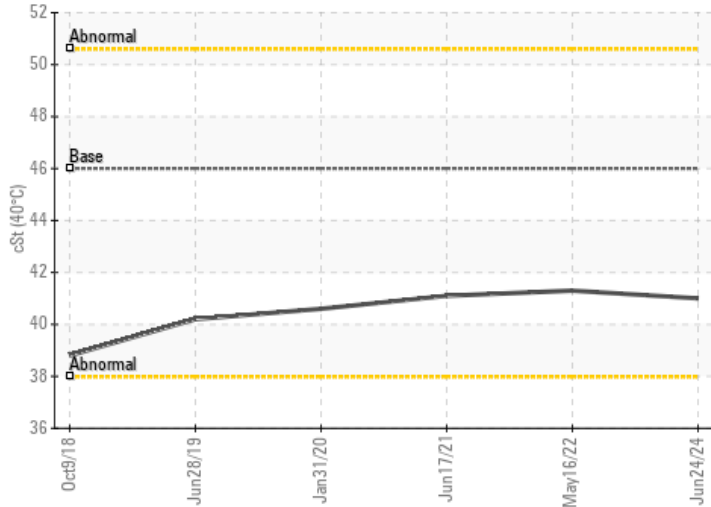
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count

