



# CONSTRUCTION EQUIPMENT

9992 WASTE CONN VOLVO L90G 617183 - HYDRAULIC SYSTEM



**Sample No:** VCP388508  
**Oil Type:** CHEVRON HYDRAULIC OIL AW ISO 46  
**Job No:** 9992 WASTE CONN



## SAMPLE INFORMATION

Sample Number	<b>VCP388508</b>	VCP290952	VCP292802	VCP223315
Sample Date	<b>02 Dec 2023</b>	02 Dec 2020	03 Oct 2020	02 Aug 2018
Machine Hours	<b>28551</b>	21161	20530	12494
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	ABNORMAL

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## OIL CONDITION

Visc @ 40°C	cSt	<b>44.0</b>	45.1	44.3	44.81
Acid Number (AN)	mg KOH/g	<b>0.44</b>	0.349	0.278	0.391

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>5577</b>	4221	14118	14308
Particles >6µm		<b>954</b>	941	2519	3278
Particles >14µm		<b>43</b>	64	220	185
ISO 4406:1999 (c)		<b>20/17/13</b>	19/17/13	21/19/15	21/19/15
Silicon	ppm	<b>&lt;1</b>	0	2	2
Sodium	ppm	<b>&lt;1</b>	0	2	2
Potassium	ppm	<b>0</b>	0	4	4

## 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## WEAR METALS

Iron	ppm	<b>&lt;1</b>	<1	3	4
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>0</b>	0	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	2	2
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	1
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>190</b>	99	352	103
Magnesium	ppm	<b>2</b>	5	6	8
Zinc	ppm	<b>481</b>	377	417	396
Phosphorus	ppm	<b>403</b>	300	340	306
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	<1	1	3

**Depot:** VOLV00150  
**Unique No:** 10783224  
**Signed:** Wes Davis  
**Report Date:** 14 Dec 2023

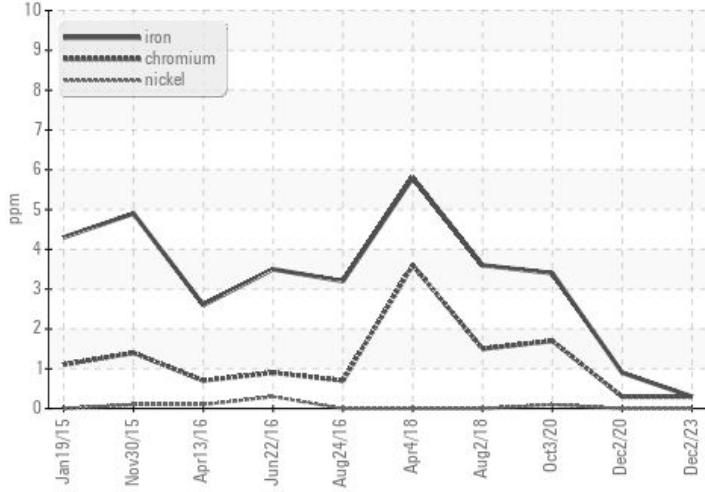


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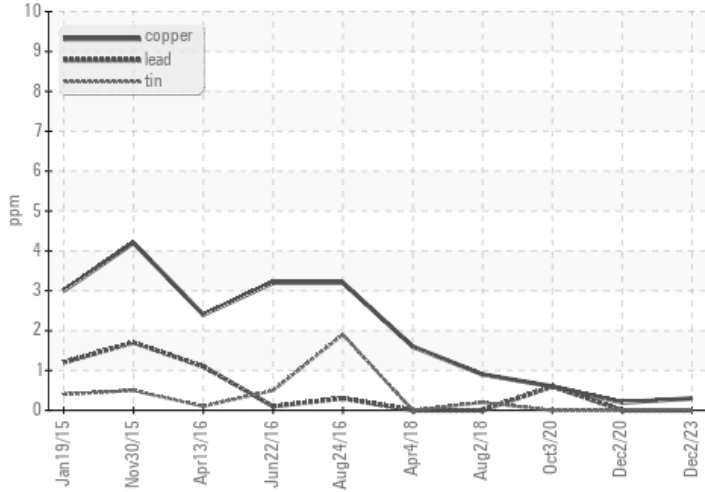


## VOLVO GRAPHS

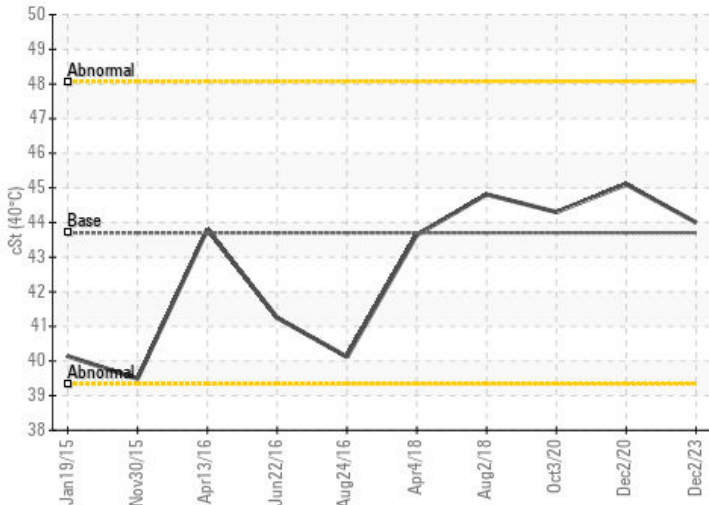
Ferrous Alloys



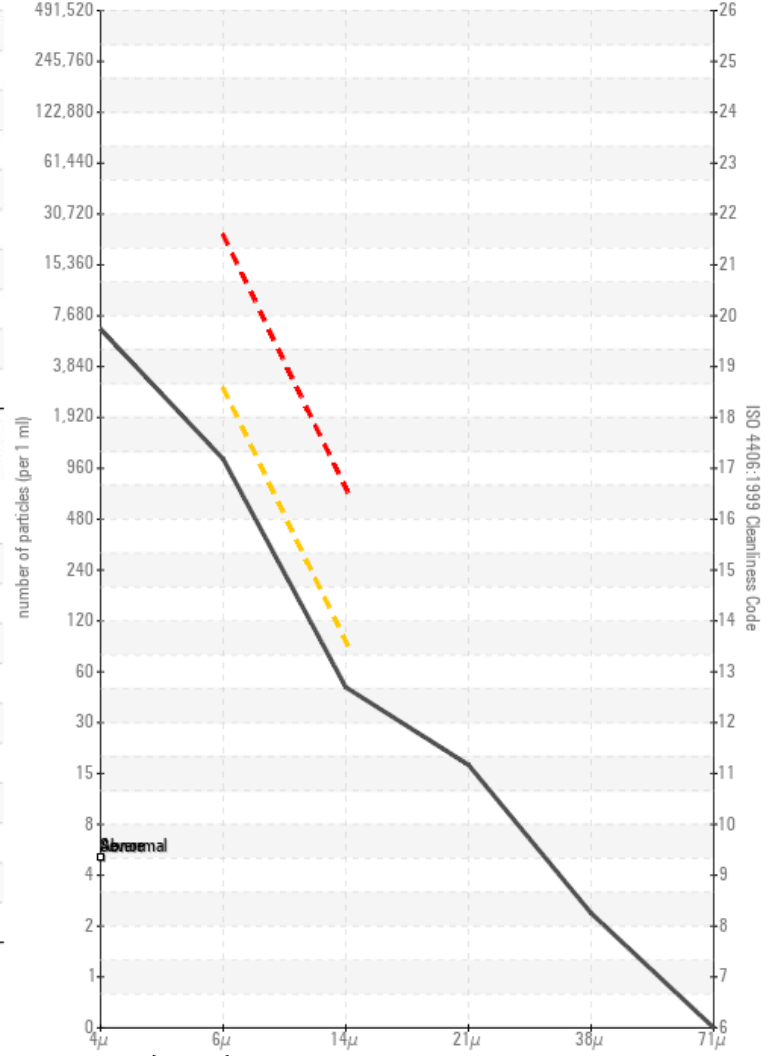
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

