



# CONSTRUCTION EQUIPMENT

## 2825-1 VOLVO L90G 3199 - HYDRAULIC SYSTEM



**Sample No:** VCP445924  
**Oil Type:** CHEVRON HYDRAULIC OIL AW ISO 46  
**Job No:** 2825-1



### SAMPLE INFORMATION

Sample Number	<b>VCP445924</b>	VCP429482	VCP408336	VCP407669
Sample Date	<b>20 Feb 2024</b>	06 Dec 2023	26 Sep 2023	28 Jun 2023
Machine Hours	<b>18494</b>	13995	17537	16948
Oil Hours	<b>0</b>	2000	0	0
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.5</b>	42.5	42.64	42.7
Acid Number (AN)	mg KOH/g	<b>0.40</b>	0.43	0.34	0.34



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>1806</b>	678	5374	851
Particles >6µm		<b>408</b>	161	568	266
Particles >14µm		<b>38</b>	13	29	27
ISO 4406:1999 (c)		<b>18/16/12</b>	17/15/11	20/16/12	17/15/12
Silicon	ppm	<b>&lt;1</b>	2	2	2
Sodium	ppm	<b>3</b>	3	3	2
Potassium	ppm	<b>0</b>	0	0	<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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

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



### ADDITIVES

Calcium	ppm	<b>153</b>	96	119	128
Magnesium	ppm	<b>2</b>	0	6	4
Zinc	ppm	<b>457</b>	428	416	448
Phosphorus	ppm	<b>356</b>	348	345	342
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>4</b>	<1	0	<1

**Depot:** VOLVO1023  
**Unique No:** 10903361  
**Signed:** Wes Davis  
**Report Date:** 01 Mar 2024

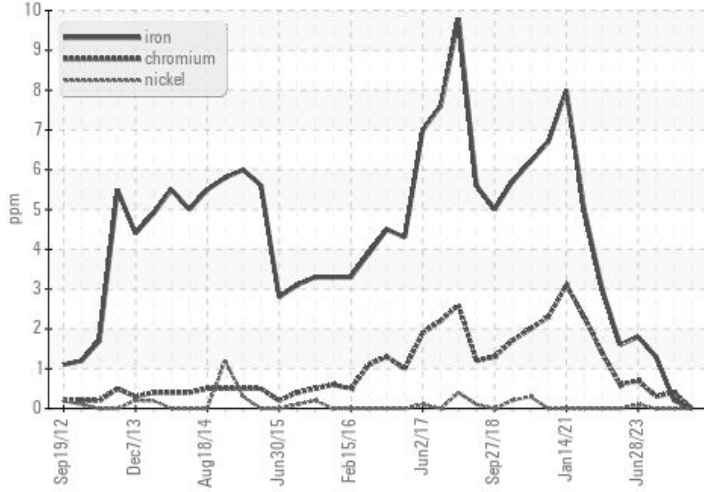


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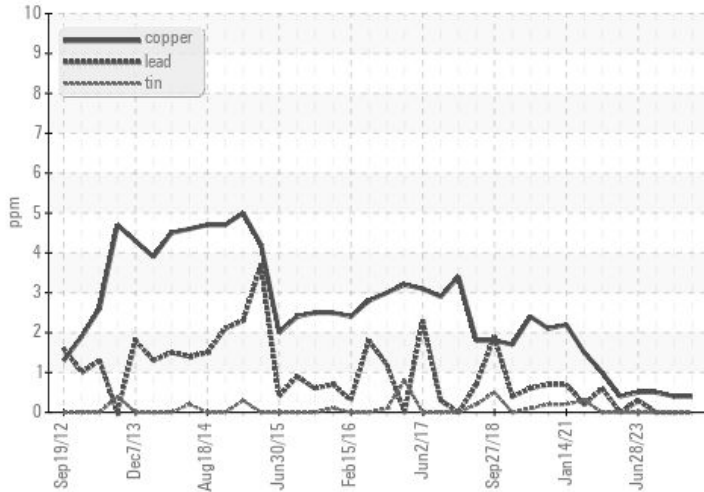


## GRAPHS

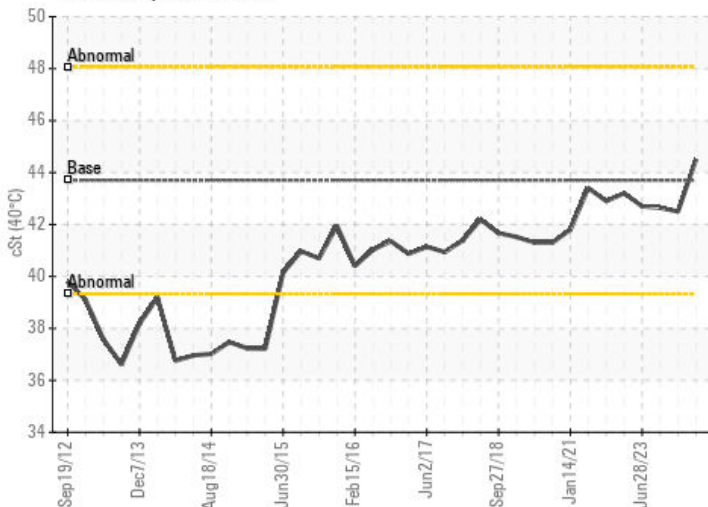
### Ferrous Alloys



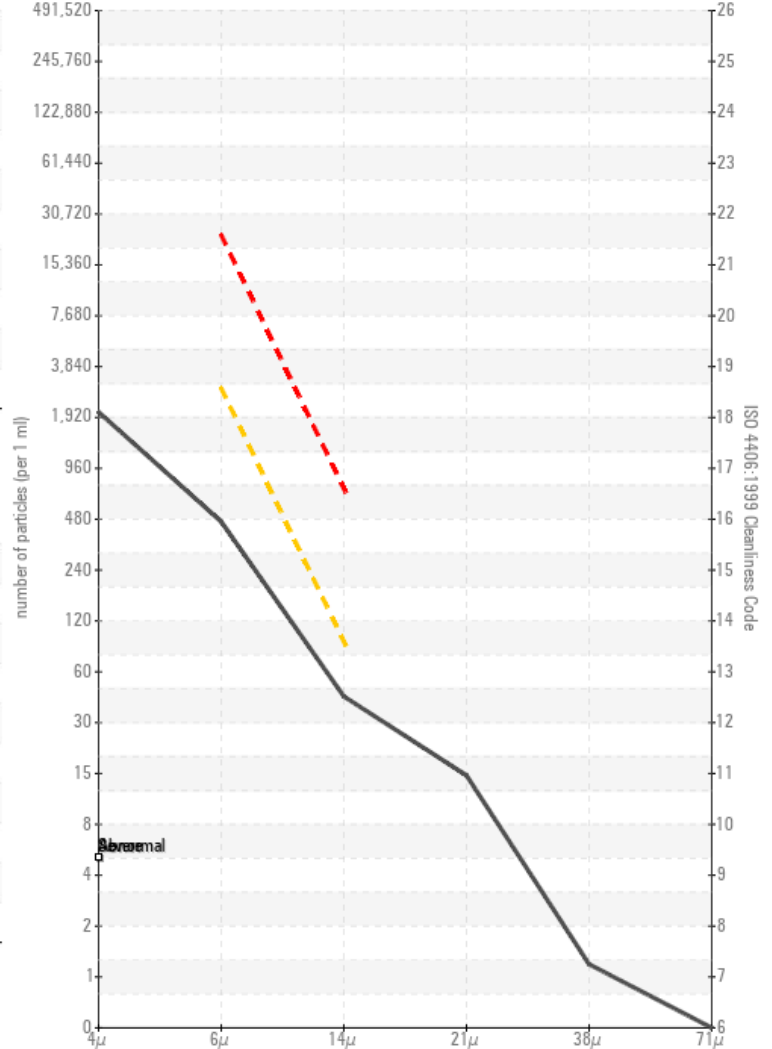
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

