



# CONSTRUCTION EQUIPMENT

## A12509 VOLVO L90G 617604 - HYDRAULIC SYSTEM



**Sample No:** VCP438189  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** A12509



### SAMPLE INFORMATION

Sample Number	VCP438189	VCP384830	VCP341002	VCP295757
Sample Date	26 Apr 2024	15 Nov 2022	13 Nov 2021	06 Aug 2021
Machine Hours	12265	10050	8575	8090
Oil Hours	4000	2000	4000	3500
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	NORMAL	ATTENTION	ATTENTION	NORMAL

IAA - INSURANCE AUTO AUCTIONS - BRIDGEPORT  
 396 E SCHUYLKILL RIVER RD  
 BRIDGEPORT, PA  
 US 19405  
 Contact: DOUG

### OIL CONDITION

Visc @ 40°C	cSt	42.0	41.5	42.6	43.2
Acid Number (AN)	mg KOH/g	0.31	0.27	0.290	0.408

T:  
F:

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1141	4995	9272	4397
Particles >6µm		36	1323	2256	695
Particles >14µm		4	141	207	36
ISO 4406:1999 (c)		17/12/9	19/18/14	20/18/15	19/17/12
Silicon	ppm	4	3	6	6
Sodium	ppm	3	2	<1	2
Potassium	ppm	0	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	7	5	9	8
Copper	ppm	3	2	3	3
Lead	ppm	0	<1	2	2
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	1	2	2
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	<1	0	0	0

### ADDITIVES

Calcium	ppm	144	146	224	198
Magnesium	ppm	4	<1	6	6
Zinc	ppm	456	489	442	445
Phosphorus	ppm	359	385	386	324
Barium	ppm	0	0	0	0
Boron	ppm	0	0	4	7

**Depot:** IAABRI  
**Unique No:** 11032600  
**Signed:** Wes Davis  
**Report Date:** 17 May 2024

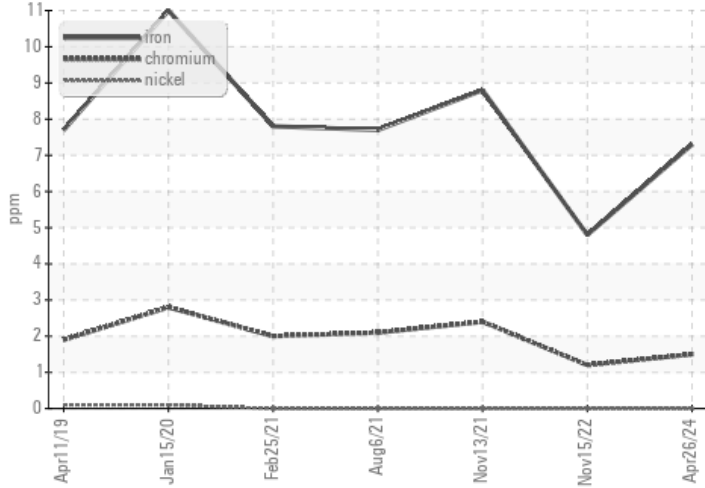


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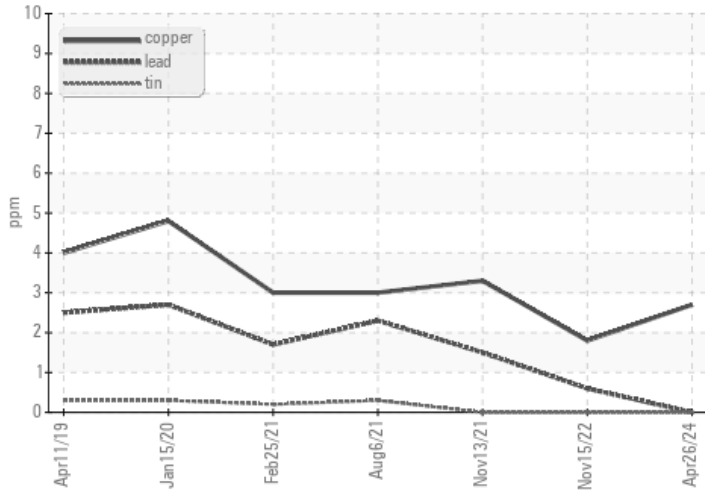


## VOLVO GRAPHS

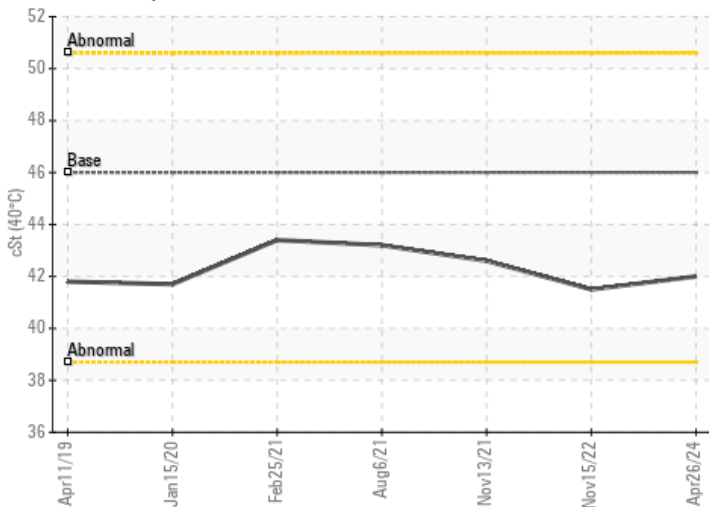
Ferrous Alloys



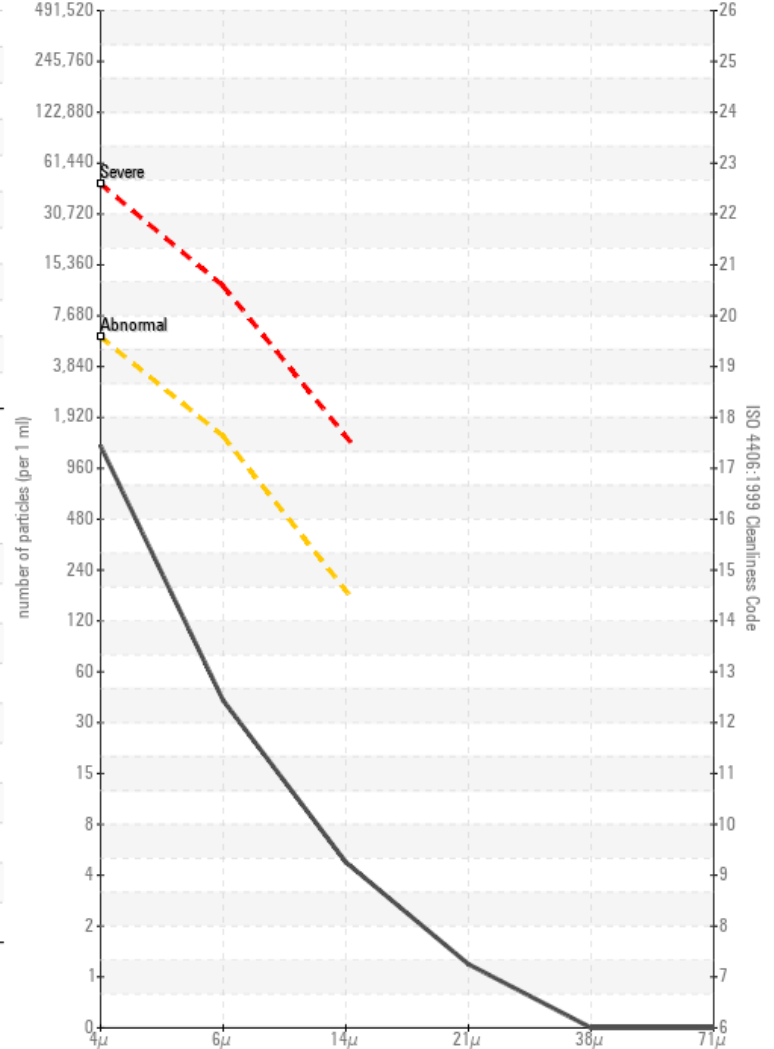
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

