



# CONSTRUCTION EQUIPMENT

## 2739-1 VOLVO L90G 3199 - HYDRAULIC SYSTEM



**Sample No:** VCP429482  
**Oil Type:** CHEVRON HYDRAULIC OIL AW ISO 46  
**Job No:** 2739-1



### SAMPLE INFORMATION

Sample Number	VCP429482	VCP408336	VCP407669	VCP390158
Sample Date	06 Dec 2023	26 Sep 2023	28 Jun 2023	28 Mar 2023
Machine Hours	13995	17537	16948	16484
Oil Hours	2000	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

**MCCLUNG-LOGAN EQUIPMENT CO - BRIDGEVILLE**  
 17941 SUSSEX HIGHWAY  
 BRIDGEVILLE, DE  
 US 19933  
 Contact: MATT CLARK  
 MCLARK@mcclung-logan.com  
 T: (302)337-3400  
 F: (302)337-9083

### OIL CONDITION

Visc @ 40°C	cSt	42.5	42.64	42.7	43.2
Acid Number (AN)	mg KOH/g	0.43	0.34	0.34	0.31

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		678	5374	851	1301
Particles >6µm		161	568	266	386
Particles >14µm		13	29	27	51
ISO 4406:1999 (c)		17/15/11	20/16/12	17/15/12	18/16/13
Silicon	ppm	2	2	2	2
Sodium	ppm	3	3	2	<1
Potassium	ppm	0	0	<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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	<1	1	2	2
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	0	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	1	1
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0

### ADDITIVES

Calcium	ppm	96	119	128	134
Magnesium	ppm	0	6	4	6
Zinc	ppm	428	416	448	443
Phosphorus	ppm	348	345	342	336
Barium	ppm	0	0	0	0
Boron	ppm	<1	0	<1	2

**Depot:** VOLVO1023  
**Unique No:** 10792957  
**Signed:** Wes Davis  
**Report Date:** 19 Dec 2023

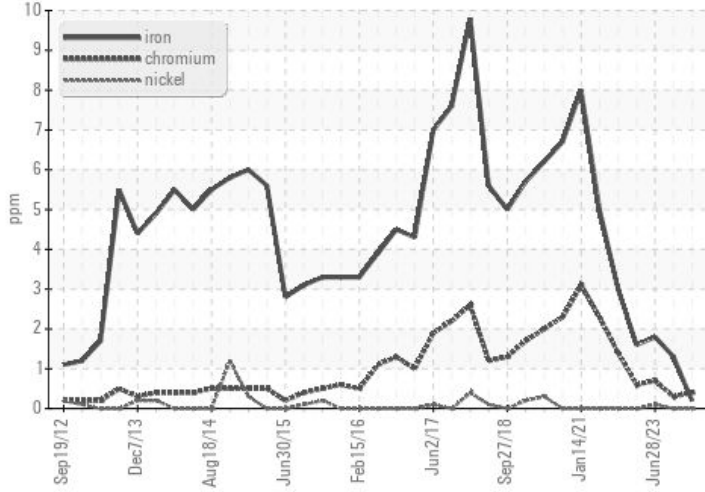


# CONSTRUCTION EQUIPMENT

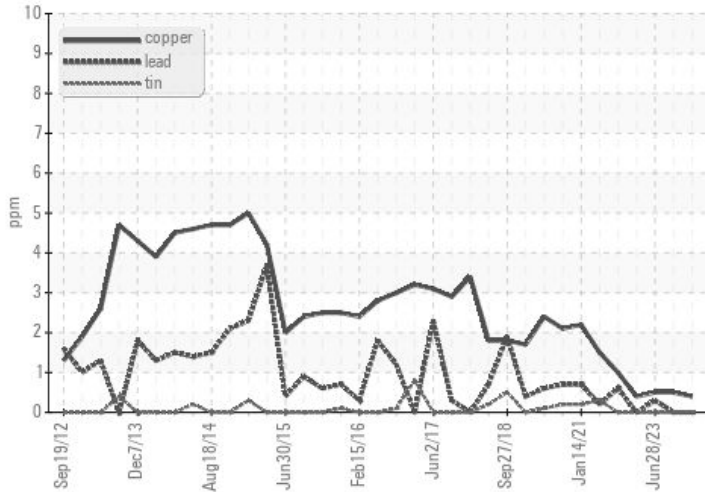


## VOLVO GRAPHS

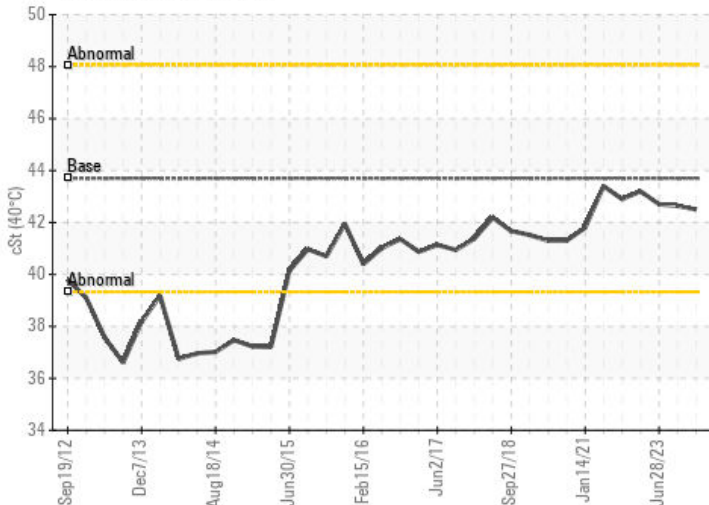
### Ferrous Alloys



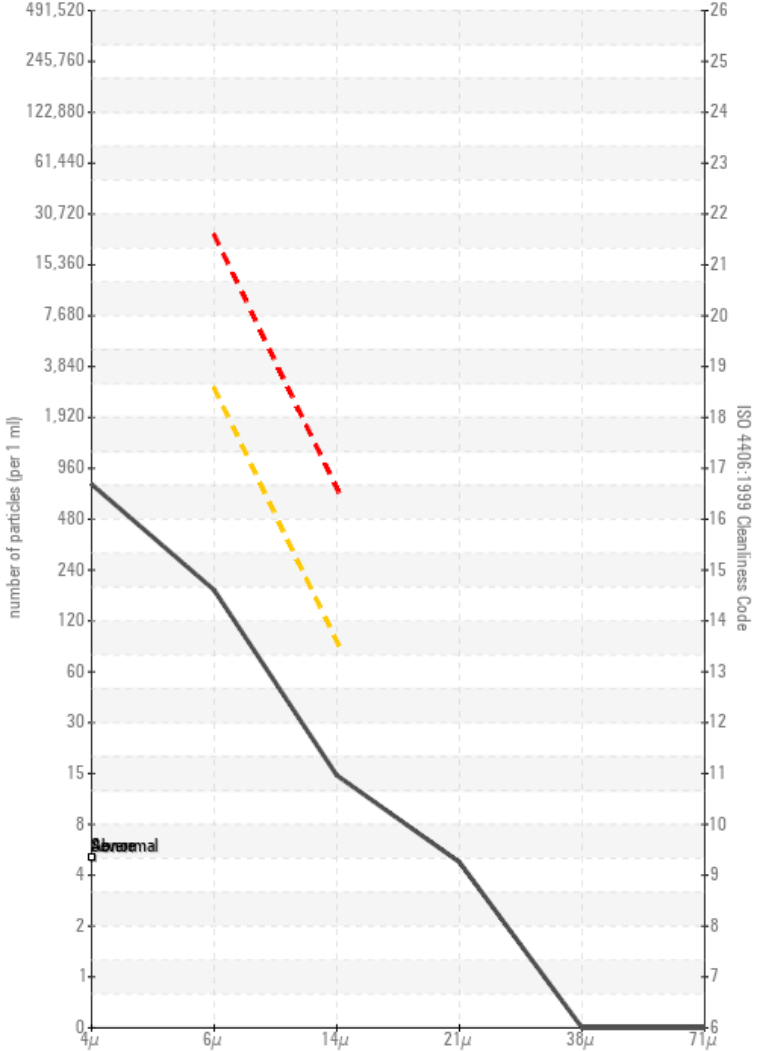
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

