



# CONSTRUCTION EQUIPMENT

## 9938 VOLVO L60G 1799 - HYDRAULIC SYSTEM



**Sample No:** VCP388542  
**Oil Type:** CHEVRON HYDRAULIC OIL AW ISO 46  
**Job No:** 9938



### SAMPLE INFORMATION

Sample Number	<b>VCP388542</b>	VCP290937	VCP214590	VCP160685
Sample Date	<b>16 Nov 2023</b>	05 Nov 2020	27 Feb 2018	23 Sep 2015
Machine Hours	<b>7929</b>	6262	4154	2080
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



**RELIABLE CONTRACTING**  
 2410 EVERGREEN RD SUITE 200  
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 US 21054  
 Contact: RUSSELL HATFIELD  
 RHATFIELD@RELIABLECONTRACTING.COM  
 T: (410)987-1851  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.8</b>	42.4	39.93	40.41
Acid Number (AN)	mg KOH/g	<b>0.27</b>	0.286	0.304	0.520



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>962</b>	2304	3166	551
Particles >6µm		<b>47</b>	199	710	300
Particles >14µm		<b>6</b>	21	49	51
ISO 4406:1999 (c)		<b>17/13/10</b>	18/15/12	19/17/13	16/15/13
Silicon	ppm	<b>10</b>	6	18	9
Sodium	ppm	<b>0</b>	0	<1	<1
Potassium	ppm	<b>2</b>	<1	<1	0

### 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>11</b>	7	9	3
Copper	ppm	<b>4</b>	2	4	4
Lead	ppm	<b>2</b>	1	2	2
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	0	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>2</b>	<1	<1	0
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>96</b>	66	60	45
Magnesium	ppm	<b>10</b>	3	<1	<1
Zinc	ppm	<b>536</b>	428	437	435
Phosphorus	ppm	<b>435</b>	313	334	331
Barium	ppm	<b>9</b>	0	0	0
Boron	ppm	<b>0</b>	2	<1	0

**Depot:** RELMIL  
**Unique No:** 10753098  
**Signed:** Wes Davis  
**Report Date:** 22 Nov 2023

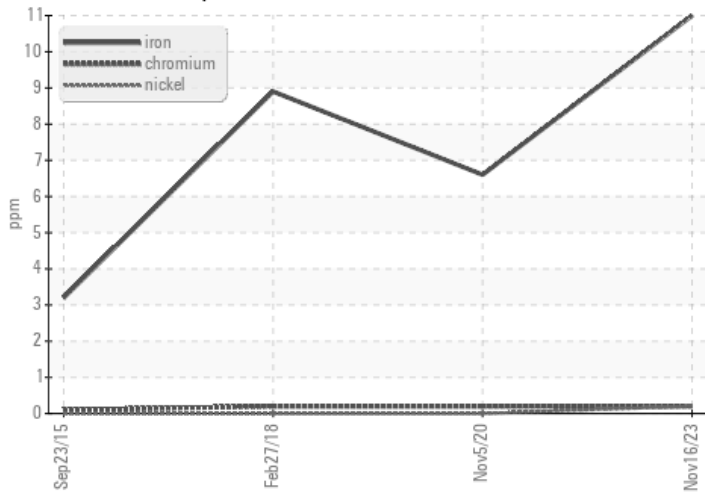


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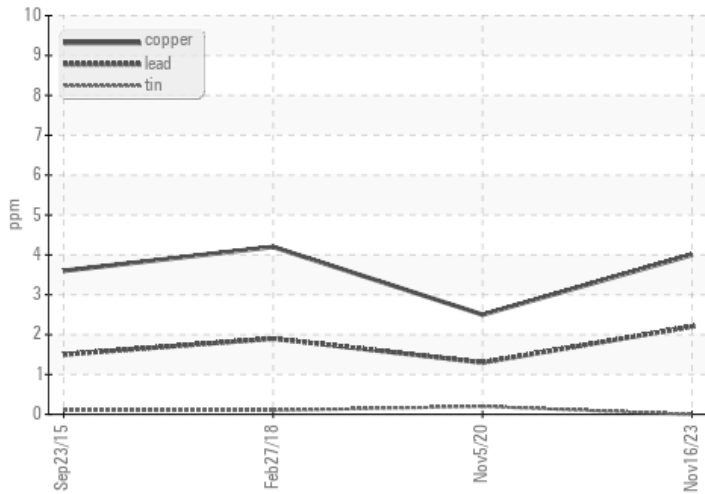


## GRAPHS

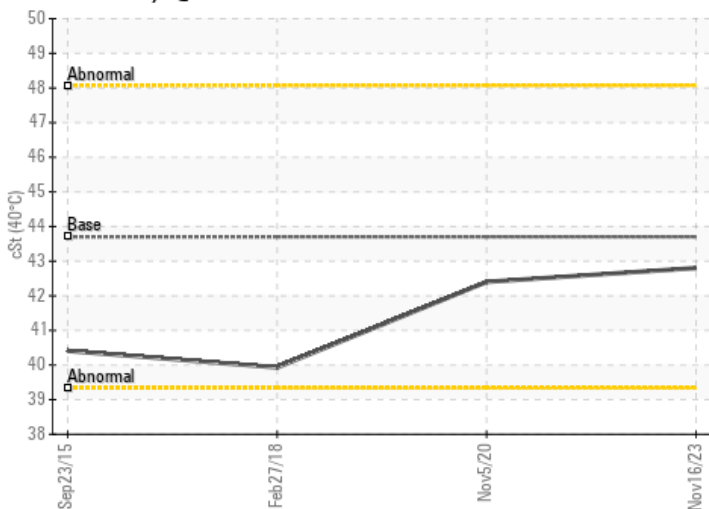
### Ferrous Alloys



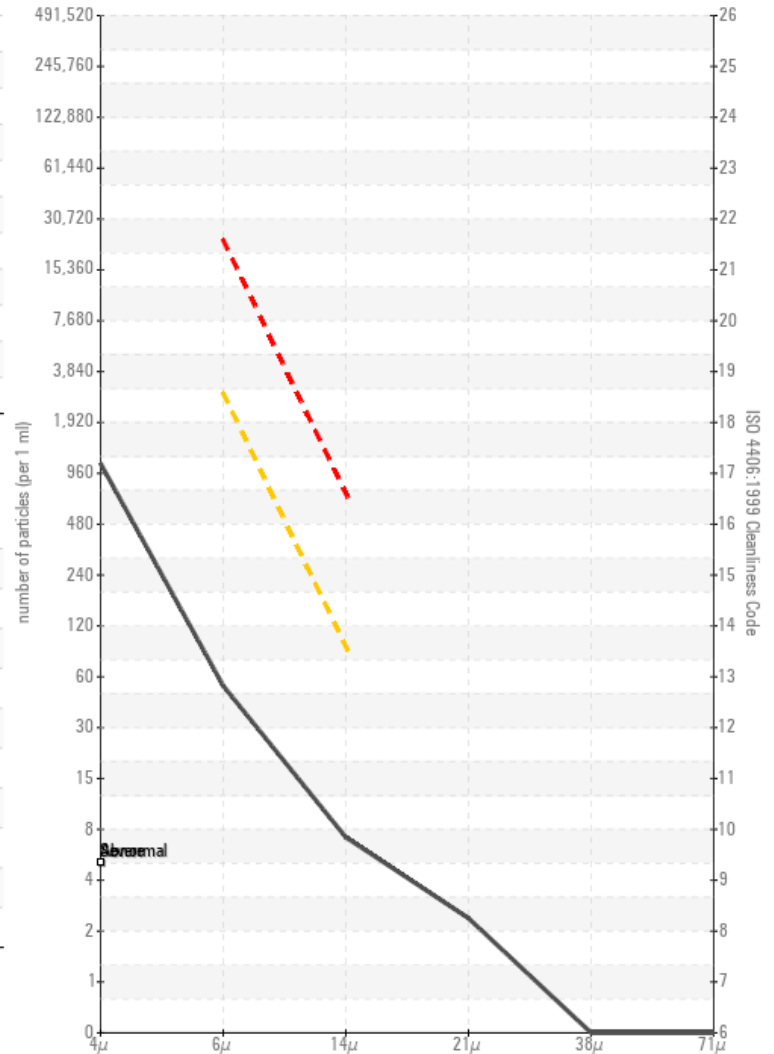
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

